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THE PANAMA CANAL RECORD

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Volume XIII.

Balboa Heights, C. Z., August 20, 1919.

No. 1.

Coaling Facilities.

The following is a report of the coaling facilities and operations at

the Canal during the quarter ending June 30, 1919:

The normal supply of coal on hand, taking the average for three months, was 206,622 tons. The amount consumed per month, averaging the three months, was 47,594 tons. Coal on hand on July 1, 1919, amounted to 183,964 tons. It was distributed as follows:

At the Cristobal coaling station, 164,464 tons; in cars at Cristobal. 594 tons; in barges at Cristobal, 1,044 tons; at the Balboa coaling

station, 17,655 tons; in barge No. 4 at Balboa, 207 tons.

The main coaling plant at Cristobal has discharging capacity of 1,000 tons per hour, reclaiming capacity of 2,000 tons per hour, and delivering or reloading capacity of 2,500 tons per hour.

Facilities for handling coal at Cristobal, in addition to the coaling

plant, were:

(a) Brown hoist.

(b) One railroad locomotive crane, equipped with clam-shell bucket, when necessary.

(c) Four DeMayo conveyors, on pier 8 and dock 9.

(d) Four DeMayo conveyors, on barges No. 13 and No. 29, two each.

(e) Four DeMayo conveyors on barge No. 21. (Two spare DeMayo conveyors on hand.)

(t) Two cranes equipped with clam-shell buckets on barges Nos. 1 and 2, one each (cranes temporarily out of commission.)

(g) Seven barges, Nos. 1, 2, 13, 15, 19, 21, and 29, with a coal-carry-

ing capacity of 500 tons each.

The capacity of the crane and conveyor devices was as follows: (a) Brown hoist, 50 to 100 tons per hour, depending upon construction of ship discharging.

(b) Locomotive cranes, will average 30 tons per hour.

(c) DeMayo conveyors, approximately 35 tons per hour each.

(d) Crane barges No. 1 and No. 2, clam-shell, 60 to 100 tons per

hour. (Temporarily out of commission.)

The main coaling plant at Balboa has discharging capacity of 500 tons per hour; reclaiming capacity of four berm cranes, 500 tons per hour; reclaiming capacity of two unloaders, 500 tons per hour; and delivering or reloading capacity, 1,000 tons per hour.

Other facilities for handling coal at Balboa are one locomotive crane. barge No. 4 with clam-shell hoist, and such ship's gear as is available.

The capacity of the locomotive crane is 30 tons per hour, and that of

barge No. 4 with clam-shell hoist, 60 to 100 tons per hour.

The Brown hoist referred to above in connection with the Cristobal coal-handling facilities, can be used only for unloading purposes, as there is no storage pile there.

The new DeMayo barge No. 15, similar to DeMayo barge No. 21, is awaiting arrival of new conveyors to be placed in commission.

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight, August 16, 1919.

THROUGH THE CANAL -- ATLANTIC TO PACIFIC.

Cansl	Net		8,576 350 692 2,070 2,628 2,628 1,828 1,237 1,745 1,745 1,745
Panama Canal tonnage	Gross	2, 657 1, 248 1, 248 1, 248 1, 248 1, 248 1, 248 1, 248 1, 248 2, 7, 020 1, 170 9, 592 1, 170 9, 592 1, 170 9, 592 1, 666 9, 66, 692 9, 66, 66, 66, 662 9, 66, 662 9, 66, 662 9, 66	11,329 734 1,213 3,215 3,959 4,040 1,386 1,537 1,537 130
	Tons	2, 629 2, 629 3, 629 3, 620 3, 640 6, 400 6, 400 11, 000 11, 000 12, 731 17, 797	7,026 11, 361, 11, 884 4, 764 3, 11, 884 4, 764 3, 11, 884 4, 764 3, 11, 884 4, 11, 884 1, 1935 11, 19
	Сагдо	Coal General General General General General Cols Cols General	General. (f) (f) (g) (g) (g) (g) (g) (g) (g) (g) (g) (g
	For	Callao Auckland Gatayaquil Valparaso Callao Pt. Callao Pt. Coast West Coast Champerico Buenaventra Yokohama Yokohama Champerico Buenaventra Yokohama Callara Callara Callara Callara San Francisco.	London. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. Puerta Cortex. New York. Cristobal F. O. Ipswiek. Bug. Weelaawken. London. Cristobal.
	From	6 Newport News 4 New York 7 Chistobal 6 Chistobal 6 Chistobal 7 Danpieo 7 Danpieo 7 Danpieo 6 Chistobal 7 New York 7 New York 7 New York 7 New York 8 Chistobal 9 Chistobal 1 Chistobal 9 New York 1 Danpieo 1 Liverpool 1 Liverpool 1 Tampieo	O Timaru, N. Z. 3 Buenaventura. 3 Buenaventura. 9 Champerico. 9 Talral. 9 Talral. 1 Caleta Buena. 8 Talcahnanc. 1 Caleta Buena. 6 Portland. 6 Portland. 6 Portland. 7 Aberdeen.
Salt		4-04-08/20040/200904940/9	27 112 123 124 125 125 127 127 127 127 127 127 127 127 127 127
	Beam	46 0 0 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	63.1 229.1 239.1 44.5 44.0 44.0 46.2 46.2 47.1 46.2 47.1 46.2 46.2 46.2 46.2 46.2 46.2 46.2 46.2
	Length Beam	267.0 3395.5 336.8 336.8 336.8 336.8 4425.0 4425.0 190.0 450	477.5 190.0 215.0 273.3 350.3 350.3 360.0 273.0
	Line	United States Shipping Board 267 0 46 0 2 United States Shipping Board 395 5 55.0 2 United States Shipping Board 395 5 55.0 2 2 South American Steamhist Line. 336 8 41.2 2 2 Cliver J. Olsen. Steamhist Line. 336 8 41.2 2 2 States Avy Wilhelmsen 425 0 67.1 2 W. Wilhelmsen 425 0 67.1 2 W. Wilhelmsen 425 0 67.1 2 W. Wilhelmsen 425 0 67.1 2 M. Wilhelmsen 420 0 51 0 22 0 1 M. Wilhelmsen 420 0 51 0 22 0 1 M. Wilhelmsen 420 0 51 0 22 0 1 M. Mippon Yusen Kabushiki Kaisha 450 0 53 0 1 M. Mippon Yusen Kabushiki Kaisha 450 0 52 0 1 M. Mippon Yusen Kabushiki Kaisha 450 0 52 0 1 M. Mippon Yusen Kabushiki M. Mippon Yusen Kabushiki 410 0 55 0 1 M. Mippon Yusen Kabushiki 440 0 52 1 2 M. Mippon States Shipping Board 440 0 62 1 2 M. Mippon States Shipping Board 440 0 62 1 2 M. Mippon States Shipping Board 440 0 62 1 2 M. Mippon States Shipping Board 440 0 62 1 2 M. Mippon States Shipping Board 440 0 62 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shipping Board 440 0 63 1 2 M. Mippon States Shippi	Shaw, Saville & Albion Co. Colombian, Maritime Company Pacific Steam Navigation Co. United States Shipping Board Pacific Steam Navigation Co. United States Shipping Board Pacific Steam Navigation Co. United States Shipping Board Cherey Sherman Steamship Company. United States Shipping Board C. Henry Smith. United States Shipping Board Cernelius Bull Company. Cornelius Bull Company. Pacific Metals Cernoration.
	Nationality	American. American. Bhitish. Clilean. Sinish. Norwegian. British. American. American. American. Anganese. British. American. British. American. British. American. British. American. British. American. British. American.	British. American. British. American. American. British. American. American. American. American. American. American.
Cleared for sea	TuoH	07 10 12 20 11 14:58 11 14:58 11 14:58 11 12:59	17.00 8.20 9.21 20.15 19.17 19.17 14.12 6.36 11.50 7.00
	Day	Mot	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ompleted	TuoH		14.13 13.28 13.28 14.30 14.30 15.57 18.55 19.55 19.50
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d Cruiser. (e) Motor Ship. (f) Coffee, nuts. hides, and rubber. (g) Sugar, wool, ores, hides, and iodine. (h) 1,325,660 feet.

San Diego.

Aug. 12.... North Carolina...... United States Navy.....

Valparaiso.

*ARRIVALS
Toyo Kisen Kaisha......

Ang. 16.... Seiyo Maru.....

*DEPARTURES

44 4	1.922	0	03	-		1,690	2,596	5,342		.,855, 1,262	:		902	1,788	1,706	1,647	:	1,023
6,757	3.081	8,293	3,639	2,671	1,132	2,652	3,959	7,488	:	1,855	-	:	1,231	2,816	2,645	2,618		1,582
7,757	3,460	0,270	(k)	3		2,880	4,770	:	2,500	(m)	2,400	7,403	701	:	2,500	2,500		1,119
Wheat	Lumber	Sugar	General	Ties	Ballast	Nitrates	Nitrates	Ballast	General	Fir, lumber	Lumber	Flour	General	Ballast	Douglas fir, lum.	Douglas fir, ties.	Ballast	General
New York	Baltimore	Philadelphia.	Cristobal	Avenmouth	Pensacola	Cristobal F. 0.	Cristobal F. O.	Tampico	New York	Neuvitas, Cuba	Baltimore	New York F.O.	Cristobal	Cristobal	West Hart'p'l.	Grimsby, Eng.	Pensacola	Cristobal
Astoria.	Hoquiam, Wash.	Honolulu	Talcahuano	Nayo, Cal	Honolulu	lquique	Pisagua	Tocopilla	San Francisco	Marshfield, Ore	Seattle	Portland	Callao	Amapala	Tacoma	Aberdeen	Balboa	Guayaquil
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409.8 54	2.8	0.0	0.0 42	3.4 46	5.5 40	3.8 46	1.0 46	5.0 55	3.5 46	1.5 40	7.3 46	.8 54	5.7 33	3.6 41	7.0 46	3.9 46	3.7 48	3.0 35
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United States Shipping Board	United States Shipping Boar	United States Shipping Boan	Chilean Line	United States Shipping Boar	Rolph Navigation & Coal Co.	United States Shipping Boan	United States Shipping Boan	C. T. Bowring.	United States Shipping Board.	Pacific Steamship Company	United States Shipping Boar	United States Shipping Board	Pacific Steam Navigation C	United States Navy	United States Shipping Boar	United States Shipping Boan	Donald Steamship Co	Pacific Steam Navigation Co
American	American	American	Chilean	American	American.	American	American	British	American	American	American	American	British	American	American	-	American	British
3.08	16 16.35	7.15	-	3 23.57	£ 119.18	1 114.29	1 20.00	15.10	5.55	5 12.57	5 13.15	3 9.55	5 55	-	533		7 6.54	:
17.16			17.30	19.40 1.	21 15 14	21 33 1	14 56 1	15 10 1	5.52 1.	36	08	20		28		15.38 17		19.55
18 13									14	14	14	15	2	5	16	16	16	91 2
1-0	0 00	00	9	6.	12	14	7	1-	00	10	£3	9	9	∞	9	9	10	12.5
8 16.45 13	332	30	00	00	40	30	8	9	14 4.00	14, 7, 20	14 13.00	14.17.00	1417.25 15		1.45	12 7.25 16		1612.05 16
West Isloy	Mahanna	Hours	Palena	Wenakee.	Golden State (1)	Cheron	Knoxville	Lomnoc	Ft. Leavenw'th.	Ad Wainworth.	Bon Secont.	Deer Lodge	Acaintla	Brutus (i)	3	Fort Seward	Marie de Rende	Canca

(4) Sail. (7) Collier. (k) 1277.28 tons. (1) 1,286,475 foet. (m) 1,064,939 feet. Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian. PORT OF CRISTOBAL.

	For	Cartagena. New York and Port Limon. New York. New York. New York. New Orlens and wayporta. New York. New York and Kingston. Purto Colombia. Colombia. Port Limon. New York via San Juan.	
*DEPARTURES	Line	Panama Railroad Commissary. United Fruit Company. Panama Railroad Steanship Line. Panama Railroad Steanship Line. United Struit Company. United States Amy. United States Amy. Spanis Steanship Line. Steanship Co. United Fruit Company. Spanis Steanship Line. United Fruit Company. Panison. Panison.	
	Vessels	Caribbean Zacapa Zacapa Zacapa Zacapa Advance Metapan Metapan Bufori William H Tupper. Santa Marta. Moniserrat Abangarat Grotina Gen. G. W. Goethals.	
	Date	Aug. 10. Aug. 10. Aug. 12. Aug. 12. Aug. 13. Aug. 13. Aug. 14. Aug. 14. Aug. 14.	PORT OF BALBOA.
		ana.	r OF
	From	New Orleans and Habana. New York. New York. New York. Port Limon. New York and Haiti. Mew York and Haiti. Cartagena. Cartagena. Cartagena. Cartagena. Kingston. Jamaica. Kingston. Jamaica. New York and Haiti.	POR
*ARRIVALS	Line From	United Fruit Company. United States Army. New York. New York. New Greas and Habb United States Army. New Orleans. Purison. Wisson. New Orleans. Port Limon. New York. New York. New York and Haiti. Panama Railroad Steamship Line. New York and Haiti. New York and Haiti. New York and Haiti. New York and Kingsta Coulf & Southern Steamship Co. Cartagena. Cartagena.	POR
*ARRIVALS	•	:::::::::::::::::::::::::::::::::::::::	(n) Power schooner.

Other than ships passing through the Canal.

Tentative Schedule of Sailings of U. S. A. Transport "Kilpatrick."

(See circular letter "Transportation of Employees and Families on Army Transports," page 9.)

Leave	Date	Arrive	Date	Days at Sea	Days in Port
New Orleans. Cristobal. San Juan New Orleans. Cristobal. San Juan	August 29 September 6 September 19 September 30	San Juan. New Orleans. Cristobal. San Juan	September 2 September 13 September 25 October 4	6 4 7 6 4 7	5 4 6 5 4

(The usual hour for sailing from Cristobal, C. Z., is 3 p. m.)

Reduction in Panama Railroad Telegraph Rates.

Effective September 1, 1919, the following rates will apply for the transmission of commercial telegrams over the wires of the Panama Railroad Company:

For the first ten (10) words (or fraction thereof), 20 cents.

For each additional word, 1 cent.

This rate also applies to interline business handled in connection

with cable and radio companies.

Any telegraph station of the Panama Railroad will accept messages for delivery at any other at the above rates, and the receiving station will make delivery promptly to the addressee if he can be located. Deliveries will be made by telephone where telephone number is indicated in address, written confirmation to be mailed or delivered by messenger if requested.

The present rates are a reduction from 25 cents for the first 10 words and 2 cents for each additional word. The reduction was made at the suggestion of the Government of Panama, to make the rates between Panama and Colon conform with the rates between other points connected by lines of the national telegraphs of Panama.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending August 16, 1919.

				Car	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Colon. Imperial. Caribbean Lake Wilson Chile. Montserrat. Panama Abangarez Palena Caribbean Santa Marta Lake Hurst	Panama Railroad Steamship Line. United Fruit Company. Panama Railroad Commissary. Panama Railroad Steamship Line. Pacific Steam Navigantion Co. Spanish Steamship Co. Panama Railroad Steamship Line. United Fruit Company. United Fruit Company. United Fruit Company. United Fruit Company. Panama Railroad Commissary. United Fruit Company. Panama Railroad Steamship Line.	August 11 August 11 August 12 August 13 August 13 August 13 August 14 August 14	August 11 August 10	2,750 1,881 686 2,772 2,168 1,278 350	Tons. 3,781 937 20 234 257

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending August 17, 1919.

				Carg	go
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Marie de Ronde Salvador. Chile Charles Nelson Mukilteo City of Para Guatemala.	Pacific Steam Navigation Co Charles Nelson Co Charles Nelson Co	August 12 August 14		245	Tons.

Special Customs Service.

THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., August 9, 1919.

To all steamship lines—In accordance with Panama Canal circular No. 679-8, entitled "Charges for Special Customs Service," effective September 1, 1919, no inspection of passengers' baggage will be made for steamers between the hours of 6 p. m. and 7 a. m. except upon written request of the master or agent to the Chief Customs Inspector, upon forms which will be furnished by The Panama Canal.

For work performed between the hours mentioned above, charge will be made in accordance with circular No. 679-8, and masters shall sign in triplicate certificates of services rendered, upon which the Collector, The Panama Canal, will make payment direct to the inspectors concerned and charge the account of the steamship accordingly.

In the case of work being started before and not completed by 6 p. m., overtime will be charged for work necessary to complete the inspection, and only such inspectors will be retained to complete the work as are requested by the master or agent on

the vessel.

When services are performed for more than one vessel by the same inspectors between the hours of 6 p. m. and 11 p. m. and after 11 p. m. and before 7 a. m., or on Sundays or holidays, the amount of the charge for each inspector's services shall be prorated among the ships served. In such cases the Chief Customs Inspector shall indicate on the certificate of service rendered the amount to be charged against each

The Chief Customs Inspector should be advised in advance of the arrival of vessels whenever possible, and also informed as to the time the inspectors are to report for duty, which should coincide with the time of the arrival of the vessel at the dock.

> CHESTER HARDING, Governor.

Resin Excavated from Borrow Pit near Gold Hill.

In the operation of a borrow pit near Summit, northeast of Gold Hill, for use in macadamizing roads, a quantity of fossil resin has been unearthed. Lumps as large as a foot in each dimension are found, covered with a rather soft, stratified rock. The physiologist of the Municipal Division examined several specimens of the resin and found it on analysis to be as follows:

Color, dark brown; fracture, conchoidal; specific gravity, at 77/77° F., 1.052; melting point, 374° F.; iodine number (Hanus), 58.98; saponification number, 4.02; acid number (direct), 2.35; ester number, 1.67; ash, 5.76 per cent. The material is somewhat similar to copal, insoluble in alcohol and ether, but partly soluble in benzine and chloro-

form.

A sample has been forwarded to the Bureau of Standards at Washington with the request that investigation be made of its possible commercial value.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights, (telephone 286).

Tabulating mechanician (male); \$1,200 to \$1,600 a year; No. 372; form 1800; age, more than 20

Patent investigator (male); \$1,200 to \$1,800 a year; No. 373; August 26, 1919; form 1312; age, within reasonable age limits.*
Expert patent investigator (male); \$1,800 to \$2,400 a year; No. 373; August 26, 1919; form 1312;

age, within reasonable age limits.*

Adding machine mechanic (male); \$1,500 to \$1,800 a year; No. 380; August 26, 1919; form 1800; age, over 20 years.3

Assistant in plant fumigation (male); \$1,500 to \$2,500 a year; No. 371; September 3, 1919; form 1312; age, not 45 years

Addressograph expert (male); \$2,250 a year; No. 378; August 26, 1919; form 1312; age, more than 20 years.* Research chemist (male); \$2,200 to \$2,500 a year; No. 393; September 2, 1919; form 1312; age, 25 years, but not 45 years.*

Typist (male and female); \$900 to \$1,200 a year; No. 300; August 22 and September 26, 1919; form 304; age, more than 18 years.

Clerk with knowledge of stenography (male and female); \$900 to \$1,200 a year; No. 300; August22 and September 26, 1919; form 304; age, more than 18 years.

Apprentice plate cleaner, apprentice transferrer, apprentice picture engraver, apprentice letter engraver (male); \$600 a year; No. 149-amended; September 3, October 8, and November 5, 1919; form 304; age, 16 years but not 18 years.

Chief metallurgist (male); and assistant chief metallurgist (male); \$4,500 to \$5,000 a year (chief metallurgist); \$3,600 to \$4,500 a year (assistant chief metallurgist); September 16, 1919; age, over 30 years (for chief metallurgist, not 45 years).*

Deputy shipping commissioner (male); \$900 a year; No. 166-amended; September 3, October 8, and November 5, 1919; form 1312; age, over 18 years.

Economist in charge of rural life studies (male); \$3,000 to \$4,260 a year; September 16, 1919; form

Electrical engineer (male); and assistant electrical engineer (male); \$2,40° to \$3,00° a year (electrical engineer), \$1,80° to \$2,40° a year (assistant electrical engineer); September 16, 1919; form 2118; no age limit *

Junior electrical engineer (male); \$1,080 to \$1,200 a year; No. 151-amended; form 1312; age, not 30 vears.*

Music teacher (female); \$720 a year; September 17, 1919, form 1312; age, 25 years but not 40 years. Engineer (\$3,000 or over a year), assistant engineer (\$1,800 to \$2,880 a year), junior engineer (\$1,200 to \$1,740 a year); engineering draftsman (\$1,200 to \$3,000 a year) (male); form 1312; age (engineer) 30 years but not 60 years; (assistant engineer) more than 20 years, and (engineering draftsman), more than 22 years.

Computer—ordnance (male); \$7.26 to \$12 a day; September 17, 1919; form 1312; age, more than

Junior highway bridge engineer (male); \$1,200 to \$1,600 a year; September 17, 1919; form 1312; age, 20 years, but not 30 years.

Aid (male); Lighthouse Service; \$1,200 a year; September 16, 1919; form 1312; age, 21 years but not 30 years.*

Chief of Division of Foreign Investigations (male); \$2,500 a year; September 9, 1919; form 2118;

age, 25 years but not 50 years,*
Associate mechanical engineer (male); \$2,000 to \$2,800 a year; September 16, 1919; form 2118; age,

25 years but not 45 years.8

Investigator in commercial dehydration (male); \$2.000 to \$3,000 a year; September 16, 1919; form 2118; age, 25 years but not 45 years.

Supplemental announcement. No. 167. The United States Civil Service Commission announces that as sufficient eligibles have been obtained from the continuous nonassembled open competitive examination for office manager and supervising clerk (male and female) no applications for these examinations will be received unless filed with the Commission at Washington, D. C., prior to the hour of closing business on

August 5, 1919.

Band leader and instructor (male): \$720 to \$1,000 a year; No. 413; September 16, 1919; form 1312; age, over 20 years.*

Histo-pathologic techniciar (male); \$1,200 to \$1,500 a year; No. 407; September 9, 1919; form 2111; age, 21 years hut not 45 years.*

Specification engineer (male); \$2,000 to \$2,400 a year; No. 401; September 9, 1919; form 1312; age,

25 years but not 45 years.*

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date

†Nonassembled. Applications will be received at any time until further notice.

Reopening of Examinations Which Have Been Held, for the Purpose of Admitting Soldiers, Sailors, and Marines.

Soldiers, sailors, and marines will be admitted to any Civil Service examination, either assembled or nonassembled, which was pending on April 6, 1917, or which was subsequently announced, the eligibility resulting from which is still alive, either originally or by extension.

Sixty days from August 1, 1919, will be allowed soldiers, sailors, and marines, in which to be examined for positions for which examinations have already been held if they shall have been discharged from the military or naval service prior to that date, or 60 days from the date of their discharge subsequent to August 1, 1919.

The examinations will be open to soldiers, sailors, and marines,

without regard to whether they served at home or abroad.

The examinations will not be open to soldiers, sailors, and marines

who served and were discharged prior to April 6, 1917.

It will not be necessary that a person shall have been discharged from the military or naval service in order to be admitted to examina-

Examinations requiring an educational test will be held semimonthly on dates to be determined by the Commission.

In cases of first, second, and third-class postmasters, a person will

not be allowed to compete if the vacancy has been filled.

Welfare workers who accompanied the military forces; civilians attached to the expeditionary forces, including dieticians, nurses, and other civilian employees in military hospitals; persons who were on the inactive list in military or naval reserve forces; persons who were discharged from the draft, not being actually and finally accepted for military service; and contract surgeons will not be allowed to file application on the same basis as soldiers, sailors, and marines.

Field clerks, persons who served in the Student Army Training Corps, and enlisted army and navy nurses will be admitted on the

same basis as soldiers, sailors, and marines,

West Indian Branch, Canal Zone Chapter, American Red Cross.

The West Indian Branch, Canal Zone Chapter, American National Red Cross has been granted to West Indians resident on the Canal Zone and in Panama and Colon. This branch will be conducted by the West Indians themselves but under the direction of the Canal Zone Chapter both as to finances and activities. Every West Indian who joins this branch will be a full-fledged member of the American Red Cross and will be required to pay \$1 gold each year for membership, half of which fee is required to be remitted to headquarters in the States and the other half is to be available for expenditure by the West Indian Branch for their own people.

This is designed to provide a permanent and large fund for the benefit of West Indians in distress and especially to assist the families of West Indians where the father has died or is unable to earn a living. This fund should operate practically as an insurance fund for the pro-

tection of West Indians and their families in distress.

The Canal authorities have given permission to make pay roll deduction for one month only for annual membership. Foremen and timekeepers will send in deduction cards with timebooks to Timekeeping Bureau, Balboa Heights, not later than August 24.

New Dentist's Office at Balboa.

A dentist's office is to be opened at Balboa, presumably on August 25, in the cottage opposite the cold storage plant and previously used by the photographer in connection with photo-metal check work. Hours are to be from 8 a. m. until 6 p.m., and rates under the regulation of The Panama Canal.

Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of-	Isthmian residence.	Employed by—	Date of death.
Donald Lyte	38754	Barbados	Celon	Panama Railroad Panama Railroad Eng. of Maint	August 9, 1919.

Locations of Patients, and Visiting Hours, at Ancon Hospital.

The following table shows the distribution of patients in the new Ancon Hospital buildings and the visiting hours for the various wards and sections:

Section and Ward.	Present number of beds.	Visiting hours.
Section "A"—White American, male: Ward No. 1, Medical, Eye and Ear. Ward No. 2, Medical, Eye and Ear. Ward No. 3, Surgical. Ward No. 4, Surgical. Cells (2).	41 44 41	Tuesdays, Thursdays, and Saturdays, 2 to 4.30 p m. Sundays and helidays, 9.30 to 11 a.m. and 2.30 to 4.30 p.m.
	172	
Section "B": White American, iemale. White foreign, iemale.	23 15	Daily except Sunday, 2 to 4.30 p. m.; 6.30 to 8 p. m Sundays and holidays, 10 to 11 a. m.; 2 to 430 p. m.; 6,30 to 8 p. m.
Nursery Private Rooms (40) Cells (2)	16 46 2	No visitors permitted. Daily, 9.30 to 11 a. m.; 2 to 4.30 p. m.; 6.30 to 8 p. m.
	102	
Section "C": Ward No. 9, White foreign, male Ward No. 10, Colored, eye and ear, convalescent	39	Wednesdays, Sundays, and holidays, 1.39 to 3 p. ma
medical Ward No. 11, Colored Acute surgical. Ward No. 12, Colored Acute medical. Ward No. 13, Colored Convalescent surgical. Ward No. 14, Colored Convalescent surgical. Cells (6).	39 39 39	
Rooms (7)		
Section "D": Ward No. 15. Ward No. 16. Ward No. 17. Colored children Ward No. 18, White children Ward No. 19, Colored female medical. Ward No. 20, Colored female surgical Rooms (6). Cells (6).	39 32 30 41 34 6	Wednesdays, Sundays, and holidays, 1.30 to 3 p. m. Daily, 9.30 to 10 a. m.; 2 to 4 p. m. Wednesdays, Sundays, and holidays, 1.30 to 3 p. 30.
Isolation: Floor No. 1 Floor No. 2. Floor No. 3. Floor No. 4.	229 14 29 28 28	No visitors permitted.
Total number of beds	99 849	

Emergency passes are issued only by and in the discretion of the section nurse.

Official Circulars.

Hand and Push Cars.

THE PANAMA CANAL, EXECUTIVE OFFICE

BALBOA HEIGHTS, C. Z., August 8, 1919.
HEADS OF DEPARTMENTS AND DIVISIONS:
The stock of hand and push cars is entirely exhausted. It is believed that there is a quantity of these cars in charge of the different departments and divisions which are not actually in use, the return of which to stock would eliminate the necessity at the present time of purchasing additional equipment of this class.

It is directed, therefore, that heads of departments and divisions arrange to have all hand and push cars in their possession which are in first-class, serviceable condition shipped to the General Storekeeper, Balboa, for stock and reissue to departments and divisions requiring them. This, of course, applies to cars not actually in use and for which no need is anticipated within the near future.

It is also directed that all bad-order cars on hand be shipped to the General Storekeeper, who will have them repaired at Balboa Shops and placed in stock for reissue. The General Store-keeper should be invoiced by the different depart-ments and divisions for the value of the items turned in at original prices, such departments and divisions being billed by the Mechanical Division for cost of repairs in accordance with paragraph 16 of my circular 656-1.

CHESTER HARDING, Governor.

Building Division.

THE PANAMA CANAL.

BALBOA HEIGHTS, C. Z., August 16, 1919.
CIRCULAR No. 660-49:
Effective this date Mr. Thomas C. Morris is appointed Resident Engineer in charge of the Building Division, vice Mr. Hartley Rowe resident and the control of the support signed, and will report to the Engineer of Maintenance.

CHESTER HARDING, Governor.

Transportation of Employees and Families on Army Transports.

THE PANAMA CANAL, BUREAU OF STATISTICS,

BALBOA HEIGHTS, C. Z., August 12, 1919.

To all concerned—The following instructions,

To all concerned—The following instructions, governing the transportation of employees and their families on the U. S. Army transports between Cristobal and New Orleans, are published for the information of all concerned:

1. Requests for transportation must be submitted to this office in sufficient time to forward to the Department Quartermaster, U. S. Army, not later than seven (7) days prior to the departure of the transport, the cost of transportation to be of the transport, the cost of transportation to be paid to the Department Quartermaster (Transportation Branch), Panama Canal Department, Ancon, Canal Zone, not later than forty-eight (48) hours prior to sailing. Upon the receipt of such payment, the transportation authority will be furnished.

In case of children, the full name and age must be stated. Where name of child or servant

is misleading, sex must be given.

3. In case of dependent members of an em-ployee's family other than wife or children, and transportation of servants, strict compliance with the following certificates is required.

This certifies that . my immediate family, habitually resides with me, is a permanent member of

and has no other home."

'This certifies that In scertines that is a bona fide servant in my family and not employed for the trip only. I personally guarantee that if the transportation is granted, said servant will not become a public charge upon the community to which taken, and will be returned to the Canal Zone, whenever necessary, without expense to the United States."

The certificates mentioned herein may be obtained from this office and must be returned properly accomplished, in duplicate, before authority

for the necessary transportation is furnished.
4. Passengers will make arrangements to deliver their baggage at ships side. Baggage must Baggage must

liver their baggage at snips side. Baggage must be claimed by owners at the dock.

5. First and second class passengers will not be permitted aboard transport before two (2) hours prior to hour of sailing.

6. Upon arrival on board, passengers will present themselves immediately at the Quartermaster's office to obtain their stateroom assignment

ter's office to obtain their stateroom assignment and to surrender their authority for transportation (Q. M. C. Form No. 935).

7. The following is the tentative schedule for the U. S. A. T. Kilpatrick:

(Printed top page 4, this issue.)

8. If transportation is desired from New Orleans, La., on the transport Kilpatrick, application should be made to The Chief of Office, The Panama Canal, Washington, D. C.

C. A. McIlvaine, Executive Secretary. C

Acting Storekeeper, Cristobal Store.

THE PANAMA CANAL, SUPPLY DEPARTMENT,

BALBOA HEIGHTS, C. Z., August 12, 1919. To all concerned-Effective this date, August 12, and continuing during absence on leave of Mr. L. J. Stapleton, Mr. Walter R. Smith will be in charge of Cristobal store as Acting Storekeeper. R. K. Morris, Chief Quartermaster.

Reopening of Post Offices.

THE PANAMA CANAL,

EXECUTIVE DEPARTMENT, BALBOA HEIGHTS, C. Z., August 14, 1919. CIRCULAR No. 73:

To all postmasters-Effective August 16, the following post offices will be reopened:

Fort Amador, Fort Randolph, Paraiso, Em-

pire, Coco Solo.

Business will be transacted by all offices upon their former basis as of July 31 and dispatches to and from the above-mentioned post offices will be made in accordance with instructions in effect prior to July 31. Circular No. 62, issued by this office July 25, is canceled.

C. H. CALHOUN, Director of Posts.

Joint Commission.

Rule of Dismissal.

In the matter of the claim of Felix de V. Ruanes for properly located on the Gatuncillo River, rule of dismissal No. 425, docket No. 2698, August 4, 1919.—The claim of Felix de V. Ruanes, docket No. 2688, is hereby disallowed and dismissed for lack of evidence sufficient to justify an award against the United States.

FEDERICO BOYD, JULIO J. FABREGA, BURT NEW. GEORGE A. CONNOLLY, Commissioners.

Award.

In the matter of the claim of the heirs of Agustin Arias Feraud for property known as "El Mangal," award No. 200, docket No. 2799, August 5, 1919.—At the beginning of the trial of the above entitled claim, counsel for the Government and counsel for the claimant reached an agreement as to the value of the mango and other fruit trees, and all other improvements located on the property known as "El Mangal," and on August 4, 1919, stipulated in writing that an award in the sum of \$800.00 be made to the neirs of Augustin Arias Feraud for these improvements.

In accordance with this stipulation an award is hereby made against the United States in the sum of Eight Hundred Dollars, States in the sum of Eight Hundred Dollars, U. S. currency, (\$800.00) for all right, title and interest the neirs of Agustin Arias Feraud may possess or may have possessed in and to the improvements located within the Canal Zone on the property known as "El Mangal," described in caim docket No. 2799.

If payment or tender of payment of this award is not made on or before September 5, 1919, said award shall thereafter bear interest at the rate of six per centum (6%) per annum until paid.

per annum until paid.

FEDERICO BOYD, BURT NEW, GEORGE A. CONNOLLY, R. J. ALFARO, Commissioners.

Certificate of Disagreement.

In the matter of the claim of Carlos W. Muller, In the matter of the claim of Carlos W. Muller, as altorney-in-fact, for Constancia de la Espriella de Muller, et al., for properly known as "Punta de Chame." certificate of disagreement rule No. 426, docket No. 3108, August 5, 1919—Pursuant to the provisions of Article XV of the Treaty between the United States of America and the Republic of Panama, ratired February 26, 1904, the Commission hereby desires to bring to the notice of the Umpire duly appointed under the said Treaty that the Commission has been unable to reach an agreement in the above entitled matter on the following, to wit: wit:

The Question of Lichility and the Question of the Sufficiency of the Evidence to Justify an Award against the United States.

The Commission herewith certifies this disagreement to the Umpire appointed under the Treaty as provided for in Article XV thereof.

Done at the National Palace, Panama, Republic of Panama, this fifth day of August. 1919.

FEDERICO BOYD, BURT NEW, R. J. ALFARO, GEORGE A. CONNOLLY, Commissioners.

Decisions of the Umpire.

In the matter of the claim of Eduardo Icaza, for property located near the town of Arraijan, and known as "La Polvareda." Amount claimed, at the

rate of \$25 per hectare. Decision of the Umpire, award No. 201, docket No. 1776, August 11, 1919—An award is hereby made against the United States of America in favor of Eduardo Icaza in the sum of \$13,240, United States currency, for all right, title, and interest which the said Eduardo Icaza may possess or may have possessed in and to the property known as "La Polvareda," con-sisting of 529 6/10 hectares of land located within sisting of 529 6/10 hectares of land located within the Canal Zone near Arraijan, subject of claim docket No. 1776, including any and all damages sustained by him on account of the expropriation of this property by the United States of America. This award shall be paid on or before the eleventh day of September, 1919, and if payment

or tender of payment is not made on or before that date, said award shall thereafter bear in-terest at the rate of six per centum (6%) per

annum until paid.

Done in the National Palace, Panama, on the eleventh day of August, 1919.

MANUEL WALLS Y MERINO,

In the matter of the claim of Ernesto Arosemena, In the matter of the claim of Ernesto Arosemena, Carlos C. Arosemena, Florencio Arosemena, Dolores H. Arosemena, Hercilia D. Arosemena, Delia Arosemena de Uribe, for property known as "San Jose" located near Panama, consisting of 545 hectares. Amount claimed, \$459.152.80. Decision of the Umpire, award No. 204, docket No. 2757, August 13, 1919—An award is hereby made against the United States of America in favor of Ernesto. Arosemena. Carlos. C. Arosemena. Ernesto Arosemena, Carlos C. Arosemena, Florencio Arosemena, Dolores H. Arosemena. Hercilia D. Arosemena, and Delia Arosemena de Uribe in the total sum of \$32,700.01, United States currency, for all right, title, and interest which the above-named claimants may possess which the above-named claimants may possess or may have possessed in and to the property known as "San Jose" located near Panama, subject of claim docket No. 2757, including the improvements located thereon and any and all damages sustained by them on account of the expropriation of this property by the United States of America, this award to be paid in the proportions and amounts as follows:

proportions and amounts as follows:
To Ernesto Arosemena, 13/18 thereof \$23,616.66
To Carlos C. Arosemena, 1/18 thereof 1,816.67
To Florencio Arosemena, 1/18 thereof 1,816.67 To Dolores H. Arosemena, 1/18 there-

1,816.67 To Hercilia D. Arosemena, 1/18 there-1.816.67

To Delia Arosemena de Uribe, 1/18 1,816.67

This award shall be paid on or before the thirteenth day of September, 1919, and if payment or tender of payment is not made on or before that date, said award shall thereafter bear interest at the rate of six per centum (6%) per annum until paid.

Done in the National Palace, Panama, on the thirteenth day of August, 1919.

MANUEL WALLS Y MERINO, Umpire.

In the matter of the claim of Manuel Espinosa B. for property known as "La Union," located in the district of Ancon, Canal Zone, consisting of 441½ hectares, of which 75 hectares are in dispute. Total amount claimed, \$300,000. Decision of the Umpire, award No. 203, docket No. 3337, August 13, 1919—An award is hereby made against the United States of America in the total sum of \$52,362.50, Listed States are recovered by being my valuation. United States currency, same being my valuation of the property known as "La Union," subject of claim docket No. 3337, consisting of 441½ hectares of land located in the district of Ancon. Canal Zone, and the improvements which existed

canal Zone, and the improvements which existed on the said property when same was expropriated by the United States of America.

Of this amount the sum of \$47,487.50, United States currency, shall be paid to Manuel Espinosa B. for all right, title, and interest which he may possess or may have possessed in and to the undisputed portion (366½) hectares) of the "La

Union" property, including the Improvements thereon and any and all damages sustained by him on account of the expropriation of this property by the United States of America.

This amount (\$47,487.50) shall be paid to the said Manuel Espinosa B. on or before the thirteenth day of September, 1919, and if payment or tender of payment is not made on or before that date, said award shall thereafter bear interest at the rate of six per centum (6%) per interest at the rate of six per centum (6%) per annum until paid.

The balance of \$4.875, United States currency, representing my valuation of the seventy-five representing my valuation of the seventy-nve hectares in dispute, is hereby ordered deposited in the District Court of the Canal Zone, Balboa Division, until that Court shall have determined the conflict existing as to the ownership of this portion of the "La Union" tract.

Done in the National Palace, Panama, on the thirteenth day of August, 1919.

Manuel Walls y Merino, Umbiré.

Umbire.

Cable Notice.

PANAMA RAILROAD COMPANY,

Office of Master of Transportation, Balboa Heights, C. Z., August 14, 1919.

To agents and operators-The following information has been received from the Central and South American Telegraph and Cable Company: "British Pacific route to Australia clear."

"W. U. advise, effective immediately, rate to Australia will be seven cents per word more than rates quoted in the tariff book."

W. J. BISSELL,
Acting Master of Transportation.

July Rainfall for Three Years.

	1	NCHES.				
Stations.	1917	1918	1919	Station average.	Years of record.	Rainy days, 1919.
Pacific section— Balboa Heights Balboa Heights Miraflores. Pedro Miguel Rio Grande. Central section— Culebra. Camacho. Empire. Camboa. Juan Mina Alhajuela. Vigia	9.17 10.17 12.23 14.78 14.44 13.59 12.70 11.96 17.75 11.66 12.90 13.71	11.96	4.94 4.75 8.03 7.30 7.42 7.52 8.89 7.72 11.14 13.46 13.92	7.93 7.69 8.14 8.74 7.42 9.37 9.66 8.89 10.12 9.66 12.49 12.35	23 23 11 12 15 28 13 15 39 9 21	15 15 18 18 20 22 22 23 21 22 25 20
Frijoles Trinidad Monte Lirio	14 71 11.59 13.93	6.37 4.78 7.83	10 50 5.67 9.37	9.92 8.94 11 62	8 12 12	25 24 29
Atlantic section— Gatun	17 80 17 .54 13 58	8.15 10.82 10.36	7.86 9.28 13.60	11.68 15.02 15.97	15 14 49	25 30 28

Cable Address of The Panama Canal.

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama"; in the United States, "Pancanal, Washington."

Postal Address of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

Misdirected Letters.

BALBOA HEIGHTS, C. Z., August 16, 1919. The following insufficiently addressed mail has been received in the office of the Director of Posts, and may be obtained upon request of the addressee. Request may be made by telephone, calling No. 182, Balboa: telepnone, Calling No. 102, Balloud.
Aston, Stanley
Bertsch, Chas. O.
Brown, Carl A.
Carter, James Washington*
Clarke, Charles A.
Clarke, Charles A.
Clarke, Charles A.
Clarke The Company of The Clarke, Charles A Coker, Lee Sims' Drake, Grover J. Dudleys, Wm. E. Morgan, Mrs. Thomas Lawrence Poupor, Harry Tiedemann, Win. Woodward, W. W Ferguson, Allen* * Special Delivery.

Rainfall from July 1 to 31, 1919, Inclusive.

Stations.	Maximum in one day.	Date.	Total.
Pacific section—	Ins.		Ins.
Balboa		5	4.94
Balboa Heights		5	4.75
Miraflores		5	8.03
Pedro Miguel	1.38	5	7.30
Rio Grande		5	7.42
Central section-		-	
*Culebra	1.59	24	7.52
*Camacho	2 36	2	8.89
Empire	1.85	24	7.72
Gamboa		10	6.70
*Juan Mina	1.89	10	11.14
Alhajuela	2.16	21	13.46
*El Vigia	2.92	20	13.92
*Frijoles	2.42	25	10 50
*Trinidad		19	5 67
*Monte Lirio	.97	24	9.37
*Darien	1.80	19	8 26
Atlantic section—			
Gatun	1.83	30	7.86
*Brazos Brook		28	9 28
Colon		28	13.60
*Porto Bello	3.90	5	24.23
* Ct 1 1		,	•1

^{*} Standard rain gauge-readings at 5 p. m. daily. Automatic rain gauge at unstarred stations-values, midnight to midnight.

Additions to Commissary Stock.

the desired to do the transfer of the transfer	
Towels, bath, Turkish, 20" x 40", ea Towels, Furkish, white, hemstitched, 24"	\$0.33
x 46" ea	.90
Towels, Turklsn, hemstitched, white, 26"	1 00
x 48", ea	1.00
x 50", ea	.83
Bread, Pilot, ½-lb., ctn	.08
Mustard, prepared, Gulden's, 8-oz., bot	.10
Marmalade, Sunkist, 1s, jar	.35
Drawers, women's, muslin and cambric,	
closed, assorted styles, pr	\$1.15
Drawers, women's, muslin and cambric, closed, assorted styles, pr	1.35
Drawers, women's, muslin and cambric,	1.00
closed, assorted styles, pr	1.50
Handkerchiefs, cotton, initial, ladies', ea	.14
Handkerchiefs, cotton, plain hemstitched,	
ladies', 12", ea	.09
Handkerchiefs, cotton, embroidered,	.28
ladies', ea	.32
Handkerchiefs, cotton, ladies', ea	.24
Handkerchiefs, cotton, plain, men's, 20"	
ea	. 20
Handkerchiefs, linen, embroidered, ladies',	
_ ea	_95
Laces, cotton, yd	.59
Suiting, alpaca, yd	1.80

Current Prices on Coal, Fuel Oil, and Beef.

Coal is being supplied to steamships, including warships of all nations, in transit through the Canal, delivered and trimmed in bunkers, at \$11.50 per ton of 2,240 pounds at either Cristobal or Balboa. For ships not in transit through the Canal, \$11.50 per ton at Cristobal and \$13.50 per ton at Balboa. For ships taking less than carload lots from plants or less than 25 tons from lighters, the price is \$13 per ton at Cristobal, \$15 at Balboa. Crude fuel oil is delivered to vessels at either Cristobal or Balboa for \$2.00 per barrel of 42

gallons

The following are current prices on fresh beef sold from the cold storage plant of the Canal. sold from the cold storage plant of the Canal. The prices will be increased by 25 per cent in cases of sales to United States and foreign naval vessels and commercial ships, including yachts. Prices quoted are United States currency, per pound.

Beef hinds, 13 cents; beef fores, 10 cents; beef ribs, entire set, 14 cents; short loins, 18 cents. This beef is from Colombian cattle, slaughtered on the Isthmus.

Statement of Occupation of Quarters, June 30.

Occupants.	Men.	Women.	Children.	Total.
Americans. Europeans. West Indians	213	2,274 38 2,015	2,542 70 3,732	8,060 321 11,162
Total	8,872	4.327	6.344	19 543

COMMISSARY NOTES.

Leather Leggins.

A long overdue shipment of English make leather leggins in both plain and strap styles has just been received and will retail for \$5.45 the pair. This shipment was detained in England owing to war restrictions and is an exceptionally good value at this price.

Fruit.

The steamship Advance brought the first shipment of huckleberries this season. No watermelons, cantaloupes or plums were received, the commissary purchasing agent stating that the prices were extremely high and the quality poor. Casaba melons were received on the steamship Colon and it is probable that shipments of this fruit will be made regularly.

COMMISSARY NOTES.

Books.

The commissaries have stocked a new dictionary which sells at \$1 and is considered good value.

Shoes.

It is the opinion of the best shoe men in the country that prices this coming autumn and winter will be around \$15 to \$20 per pair. There are some who expect prices to go even higher and state that a cheap shoe will be simply shoddy—made to sell and not to wear.

Canned Goods.

A scarcity of certain canned goods seems to exist in the market at present. commissary purchasing agent has explained that for this reason there will probably be some delay in shipments of apricots, asparagus, blackberries, crab meat, plain dates in glass, tuna fish, and several other items.

Textile Trade Conditions.

Indicative of general conditions in the textile trades is this excerpt from letter received from one of the largest firms in the United States: "We have sold the product of our mills for the next 6 months, without even having a set of samples to show. If we find we can turn out more goods, we will advise you later, but at present we do not see our way clear to take any additional orders."

Wearing Apparel.

According to a trade publication, clothiers all over the country have been advised that prices the coming season will be very high. This condition, it is said, will apply to woolen and cotton clothing, hats, flannel shirts, work shirts, silk shirts, underwear, and hosiery. It has been pointed out that the difficulty starts with the source of supply—the mills and the weaving of cloth—and that it is not a case of manipulating prices.

Matches.

For the past several years commissary patrons have been considerably inconvenienced owing to the poor quality of matches which they have been forced to This condition was occasioned by the war restrictions in foreign purchase. countries.

We are now glad to announce that these restrictions have been removed and we have just received a shipment of the old reliable Canal Zone matches which will be a

great relief in the present situation.

Art Prints.

Many customers will be interested in the announcement that the larger commissaries have opened an art print department in connection with their sections selling books, stationery, and sheet music. The initial shipment of pictures consists of photogravures, mezzo prints, nursery rhymes, Stanlaws post cards, and colored posters, the originals of which appeared in the leading illustrated American weeklies and in one monthly magazine of wide circulation in the United States. A variety of subjects is offered, and the price is somewhat below that at which such prints ordinarily are sold.

Books.

Books received:

Books received:

"An Adopted Husband," by Sono Amokage; "The Madman," by Kahlil Gibran: "Good Sports," by Olive Higgins Prouty; "Firebrand of Bolshevism," by Princess Catherine Radziwill; "The Beloved Stranger," by Witter Bynner; "The Life of the Party," by Irvin Cobb; "The Shadow on the Dial," by Orton H. Carmichael; "Caesar or Nothing," by Pio Baroja; "The Best Short Stories of 1918," by Bdward J. O'Brien; "From Father to Son," by Mary S. Watts; "The Cricket." by Marjorie Benton Cooke; "The Last Million," by Ian Hay Beith; "The Secret City," by Hugh Walpole; "Tam o' the Scoots," by Edgar Wallace; "Alice-Sit-by-the-Fire," by J. M. Barrie; "With the Children in Lewis Carroll's Company," by William V. Kelly; "Christopher and Columbus," by the author of "Elizabeth and her German Garden;" "Strange Case of Cavendish," by Randall Parrish; "A Smile a Minute," by H. C. Witwer; "The Gay-Dombeys," by Sir Harry Johnston; "Midas & Son," by Stephen McKenna; "Lillies W..ite and Red," by Frances Wilson Huard; "Saint's Progress," by John Galsworthy; "The Undying Fire." by H. G. Wells; "The Desert of Wheat," by Zane Grey: "The Arrow of Gold," by Joseph Conrad.

THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

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Volume XIII.

Balboa Heights, C. Z., August 27, 1919.

No. 2.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending August 23, 1919.

				Cargo-		
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.	
Lake Wilson Chile Palena Guatemala Calvert Atenas Panama Lake Hurst Cartago Ucayali Gen O. H. Ernst Trivives City of Para Allianca Abangarez Orotina Peru	Panama Railroad Steamship Line. Pacific Steam Navigation Co. United Fruit Company. Pacific Steam Navigation Co. Panama Agencies. United Fruit Company. Panama Railroad Steamship Line. Panama Railroad Steamship Line. United Fruit Company. Peruvian Steamship Line. United Fruit Company. Pacific Mail Steamship Line. United Fruit Company. Pacific Mail Steamship Line. Panama Railroad Steamship Line. Panama Railroad Commany. Pacific Steam Navigation Co. Litalian Steam bin Line.	August 17 August 18 August 18 August 18 August 19 August 20 August 20 August 20 August 21 August 21 August 21 August 21 August 21	August 21	400 2,562 3,542 196 1,631 2,276	680 522	

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending August 24, 1919.

	7.			Cargo-		
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.	
PeruCauca	Pacific Mail Steamship Co	August 20	August 21 August 22	(*) 10 (†)	Tons. (†) (†) (†) (†) 4 (†)	

^(*) Reported in issue of August 17.

Executive Order.

It is hereby ordered that all veterans of the Civil War in the service of the Government of the United States who desire to attend the Fifty-third National Encampment of the Grand Army of the Republic to be held at Columbus, Ohio, September seventh to fourteenth, nineteen hundred and nineteen, shall be granted leave of absence with pay, in addition to the annual leave provided for by statute, from September seventh to fourteenth, inclusive, that they may have the opportunity to attend the Encampment, and that they be granted as many more days additional leave with pay in each case as are necessary for the journey to Columbus and return to their posts of duty.

THE WHITE HOUSE, 12 July, 1919.

WOODROW WILSON.

[No. 3112.]

Executive Order.

The Civil Service Commission may enter upon its register for stenographer, typewriter, or stenographer and typewriter at Washington, D. C., or elsewhere, the name of a person certified and appointed within three years from any of these registers who is found to be assigned principally in point of time or importance to work not requiring proficiency in the technical subjects upon which he was examined, after the following procedure:

(1) The employee shall transmit request for entry of his name on the register through the head of his department or office or his authorized representative,

^(†) No cargo discharged.

^(‡) No cargo laded.

in which he shall state the kind or kinds of work he is performing and the amount of time devoted to each kind.

(2) The request shall be promptly forwarded to the Commission with comment

or recommendation.

(3) If the Commission finds that the principal duties of the person are not those requiring preficiency in the technical subjects upon which he was examined, his name shall be entered upon the appropriate register for further certification unless the department or office corrects the assignment and so reports.

(4) No disciplinary measure or discrimination shall follow request under this

order except for false statement therein, of which the Commission shall be the judge.

(5) A person certified and selected under the terms of this order shall be at liberty to accept appointment without objection or hindrance by the department or office which failed to assign him to duties in keeping with his examination.

WOODROW WILSON.

THE WHITE HOUSE, 30 June, 1919.

[No. 3108.]

Executive Order.

1. The area of land hereinafter described as Fort Amador and Fort Grant Reservations, situated in the Canal Zone, is hereby set apart and assigned to the uses and purposes of a Military Reservation and shall be under the control of the Secretary of War; but said area shall be subject to the civil jurisdiction of the Canal Zone authorities in conformity with the Panama Canal Act.

2. The said area is described as follows:

FORT AMADOR AND FORT GRANT RESERVATIONS.

Starting at monument "V" which is a concrete monument whose location is latitude 8° 56′ plus 3.602.8 feet, longitude 79° 33′ plus 1,556.9 feet, shown on a map on file in the District Engineer Office, Balboa Heights, C. Z., entitled "Reservations of Fort Amador and Fort Grant, C. Z." File No. GP-2308, dated December 28, 1918; thence on a line (azimuth 97° 06′) connecting the said monument "V" with the center of the most southerly foot of the south radio tower, to the intersection of said line with the top of slope, a distance of 63 feet, more or less, which intersection is marked by a monument, marked "Mon. A" on the map; thence a distance of 534 feet on a line making an azimuth of 80° 44' to a point just west of the main road to Fort Amador and marked by a peg set into a concrete pad in the gutter, marked "Mon. B" on the map; thence a distance of 405.3 feet on a line making an azimuth 70° 0' to the intersection with the present boundary line at Balboa Radio Station WZ (Shown on a plan dated March 17, 1915, scale 1 to 600, entitled "U. S. Naval Radio Station, Balboa, C. Z." submitted by F. H. Cook) marked by a monument called "Mon. C" on the map; thence a distance of 635.4 feet, more or less, on a line making an azimuth of 307° 40' to a point marked by a monument known as "Monument Z"; thence a distance of 652.4 feet, more or less, on a line making an azimuth of 37°40' to a concrete monument, marked "Mon. D" on the map, which monument is on the extreme high water line on the shore of Balboa Harbor; thence along the extreme high water line in a general southeasterly direction along the west bank of the breakwater, around the former islands of Naos, Culebra, Perico, and Flamenco back on the east bank of the breakwater and around the east bank of the present Fort Amador post site, on the extreme high water line to a concrete monument marked "Mon. G." on the map; thence on a line the azimuth of which is 37° 40′ for a distance of 63.8 feet to the concrete monument marked "V" on the map which is the point of beginning. Besides the area included in this boundary, the islands of San Jose, Penamarca, Changarmi, Tortclita, Tortola, Cocoviceta, Cocovi, and Venado, are also within the reservation of Fort Crant of Foit Grant.

All azimuths are true and read from south.

3. All land in this area, north of latitude 8° 56' will be known as Fort Amader Reservation and all land south including the islands of San Jose, Panamarca, Changarmi, Tortolita, Tortola, Cocoviceta, Cccovi, and Venado, will be known as Fort Grant Reservation. The monuments, marked "Mon. E." and "Mon. F." on the map locating this east and west line (Lat. 8° 56") are placed on the extreme high water mark about 730 feet south of gun No. 1, Battery Birney.

4. Executive Order of May 28, 1918, relating to the transferring of a certain portion of land within the Balboa Radio Station Reservation from the control of the Secre-

tary of the Navy to the control of the Secretary of War is hereby rescinded.

5. The following described portion of that certain tract of land situated at Balboa. Canal Zone, and placed under the control of the Secretary of the Navy by the Executive Order of May 26, 1914, No. 1948, is hereby transferred from the control of the Secretary of the Navy and placed under the control of the Secretary of War for

military purposes:

Starting at monument "V" which is a concrete monument whose location is latitude 8° 56′ plus 3,602.8 feet, longitude 79° 33′ plus 1,556.9 feet, shown on a map on file in the District Engineer Office, Balboa Heights, C. Z., entitled "Reservations of Fort Amador and Fort Grant, C. Z., File No. GP-2308 dated December 28, 1918; thence on a line (azimuth 97° 06′) connecting the said monument "V" with the center of the most southerly foot of the south radio tower, to the intersection of said line with the tent of closes a distance of 63 feat, more relocations which intersection is waited. line with the top of slope, a distance of 63 feet, more or less, which intersection is marked by a monument, marked "Mon. A." on the map; thence a distance of 534 feet on a line making an azimuth of 80° 44' to a point just west of the main road to Fort Amador and marked by a peg set into a concrete pad in the gutter, marked "Mon. B" on the map; thence a distance of 405.3 feet on a line making an azimuth of 70' 0' to the intersection with the present boundary line at Balboa Radio Station WZ (shown on a plan dated March 17, 1915, scale 1 to 600 entitled "U. S. Naval Radio Station, Balboa, C. Z." submitted by F. H. Cooke) marked by a monument called "Mon. C", on the map; thence a distance of 635.4 feet on a line making an azimuth of 307° 40′ to a point marked by a monument known as "Monument Z" thence a distance of 765 feet, more or less on a line making an azimuth of 217° 40' to Monument "V" which is the point of beginning.

All azimuths are true and read from south.

6. The transfer of the above described tract of land is made subject to the continued right of the Navy Department to lay and maintain therein underground antennae receiving wires needed in connection with the maintenance and operation of the Naval Radio Station, at Balboa, C. Z.

7. This portion of land herein transferred is included in the above description of

Fort Amador.

8. In addition to the above the Secretary of War shall have control of all lands and water for a distance of one hundred yards out to sea from the high water line on all shores of Fort Amador and Fort Grant Reservations, terminating at the prolongation of boundary lines toward the sea from points marked "Mon. D" and "Mon. G" on

THE WHITE HOUSE. 25th July, 1919.

[No. 3130.]

WOODROW WILSON.

September Weather Probabilities.

The following weather conditions may be expected at the Canal entrances during the month of September, 1919. Predictions are based on the records at Colon and Balboa Heights for the past 12 and 13 years, respectively:

Winds-Light southeast and variable winds will prevail over the Atlantic coast, with an average hourly velocity of about 7 miles, although a maximum velocity as high as 35 miles an hour may occur during the passage of local rain or thunder

showers.

Light northwest or north winds will prevail over the interior and the Pacific coast, with an average hourly velocity of about 6 miles. A maximum velocity of 30 or 35 miles an hour may be expected during local rain or thunder storms, but

such storms seldom last for more than a few minutes.

Rain—The average September rainfall on the Atlantic coast for a period of 48 years is 12.67 inches, while the average rainfall at the Pacific entrance for a period of 22 years is 7.75 inches. Heavy showers may be expected on both coasts. The average number of days during the month on which the rainfall equals or exceeds 1 inch (1.00) has been 4 on the Atlantic coast and 3 on the Pacific side.

Fogs—Few, if any, fogs are likely to occur on either coast, but night and early

morning fogs will be numerous over the interior. The average number of fogs over the Gaillard Cut section of the Canal during the month of September is about 25, 57 per cent of which have been dense. (In a dense fog objects can not be distinguished at a distance of one thousand feet). All fogs that occur may be expected

to lift or become dissipated by 8.30 a.m.

Temperature—The average shade air temperature over both coasts will be approximately 80° Fahrenheit. The maximum temperature for the month is not likely to exceed 94° F. at the Pacific entrance, or the minimum be lower than 68° F., while at the Atlantic entrance a temperature higher than 91° F. or lower than 71° F. is not likely to occur. The mean daily range in temperature will be about 13° F. on the Pacific coast and 10° F. on the Atlantic.

Barometric pressure—Except for the well-marked diurnal changes, variations

Barometric pressure—Except for the well-marked diurnal changes, variations in atmospheric pressure on the Isthmus are very slight, and have little value in indicating future weather conditions. The mean atmospheric pressure for the month will be about 29.84 inches over both coasts. The highest pressure is not likely to be above 29.95 inches, or the minimum lower than 29.70 inches.

Relative humidity—The percentage of moisture in the air varies but slightly from month to month during the rainy season. The average humidity for the month of September on both coasts will be close to 87 per cent. On the Pacific coast the average maximum night-time humidity will be about 95 per cent, while the average minimum day-time value will be close to 74 per cent. On the Atlantic coast the corresponding values will be about 92 per cent and 79 per cent, respectively.

Storms-Local wind, thunder or rain squalls of limited extent may be expected quite frequently over the Isthmus during the month of September. No severe general storms are likely to occur as the Canal Zone lies without the regions of violent and widespread atmospheric disturbance. The West Indian hurricane season is from June to November, but the normal paths of these storms during the coming month lie well to the northward of the Isthmus. A rough sea with fresh winds may be experienced occasionally outside the breakwater following the passage of one of these storms. The average number of days during September on which thunderstorms occur is about 18 on both coasts.

Generally cloudy weather will prevail and smooth to moderate seas may be

expected at the Pacific entrance.

Tides—Tidal fluctuations at the Atlantic entrance to the Canal are too small to affect navigation, as the maximum tidal range of record is only about 2 feet. Panama (Balboa) tide predictions are given below:

Day of - Day of -																	
		Time and Height of High and Low Water.		W.		_ lime and Height of High			W. Mo.		Time and Height of High and Low Water.						
W.	Mo.				MIO.			***	74.0.								
M	1		:37 1 1.0	2:08 3.0	7:58 13.0	Th	11	4:11 16.7	10:36 -0.5	4:32 16.6		s	21	1:17 13.8	7:36 3. 0	1:42 14.0	8:01
Tu	2		:13 1 3.1	2:55 3.9	8:40 12.1	F	12	4:52 17.3			11:34 3.0-	М	22	2:12 14.6	8:31 2.1	2:34	8:52
w	3		:58 :	3:54 4.7	9:37 11.4	S	13	5:34 17.5	11:56 -1.0	5:58 16.8		Tu	23	$\frac{2:58}{15.2}$	9:17 1.3	3:19 15.2	9:34 1.1
Th	4	4:17 10: 5.4 11			10:55 11.1	s	14	0.:15 -0.5	6:18 17.3	12:39 -0.6	6:43 16.4	w	24	3:39 15.7	9:57 0.7	4:00 15.5	10:12
F	5	5:31 11: 5.6 11	:24 1.5			М	15	1:00 0.2	7:04 16.7	1:27	7:30 15.6	Th	25	4:17 16.0	10:33 0.4	4:37 15.7	10:48
S	6		:42 1: 5.1	2:29 12.1	7:19 4.2	Tu	16	1:50 1.3	7:53 15.7	2:20	8:24 14.6	F	26	4:52 16.0	11:08 0.3	5:13 15.6	11:22
s	7			1 :37 13 .0	8:11 3.1	w	17	2:48 2.4	8:49 14.6	3:23 2.3	9:26	s	27	5:27 15.8	11:42 0.6	6:47 15.2	11:56
M	8			2:24	8:56 1.9	Th	18	3:57 3.4	9:58 13.7	4:35 3.1	10:44 13.1	s	28	5:58 15.4	12:17 1.1	6:20 14.8	
Tu	9			3:08 15.0	9:37		19	5:13 3.9	11:20 13.2	5:50 3.4		М	29	0:30 2.0	6:30 14.8	12:53 1.8	6:53 14. 5
W	10			3:51 15.9	10:17 -0.1		20	0:07 13.2	6:29 3.7	12:38 13.4	7:02 3.1		30	1:08	7:02 14.1	1:32	7:28 13.4

The tides are placed in the order of their occurrence; the *times* of high and low tides are shown on the upper lines. The figures in boldfaced type are hours and elevations between noon and midnight; ante meridian figures are given in the ordinary lightfaced type. The time is Cosmopolitan Standard for the meridian 75° W.

The *elevations* of the water are shown on the second line for each day; a comparison of consecutive heights will indicate whether it is high or low water. Heights are reckoned from mean low water springs, which is 8.3 below mean sea level and is the datum of soundings on the Coast and Geodetic Survey charts for this region. The depth of water may accordingly be estimated by adding the tabular height of the tide to the soundings, unless a minus (-) sign is before the height, in which case it is to be subtracted. The annual inequality or variation in the mean sea level is included in the predictions. predictions.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights, (telephone 286):

Superintendent of melting shops (male); \$5,000 a year; No. 421; September 23, 1919; form 1312; age, within reasonable age limits.*

Superintendent of forge shops (male); \$5,000 a year; No. 421; September 23, 1919; form 1312; age, within reasonable age limits.*
Oiler (male); \$840 a year; No. 417; September 16, 1919; form 1800; age, over 18 years.*
Grain supervisor (male); \$1800 to \$3,240 a year; No. 408; September 30, 1919; form 2118; age, 25 years but not 50 years.*

Apprentice map engraver (male); \$700 to \$800 a year; September 17, 1919; form 304; age, 16 years but not 18 years.*

Assistant examiner, Patent Office (male and female); \$1,500 a year; No. 400; September 17, 18 and 19, 1919; November 19, 20 and 21, 1919; form 1312; age, 20 years and over.

Kelp plant chemist (male); \$1,440 to \$1,800 a year; No. 418; September 16, 1919; form 1312;

age, not 45 years.*

Skilled laborer, qualified in pasteboard box making (female); \$720 to \$900 a year; September 23, 1919; form 304; age more than 18 years.*

Expert radio aid (male); \$7.04 to \$12 a day; No. 298, amended; September 30, 1919; form 2118; age, within reasonable age limits.*

Investigator in tobacco warehousing (male); \$2,200 to \$3,000; October 7, 1919; form 2118; age, 25 years but not 45 years.* Clerk-translator (male and female) (qualified in Japanese); \$1,000 a year; October 8, 1919; form

304; age, over 18 years.

Industrial supervisor (male and female); \$2,600 to \$3,000 a year; industrial assistant (male and female); \$2,100 to \$2,500 a year; industrial agent (male and female); \$1,800 to \$2,000 a year; October 14, 1919; form 2118; age, over 25 years.*

Junior physicist (male); (qualified in fuel analysis and high temperature measurements); \$1,500 a year; October 7, 1919; form 1312; age, not 40 years.*

Plant engineer (male); \$3,000 to \$3,600 a year; September 30, 1919; form 1312; age, within reasonable age limits.* age, over 18 years.

able age limits.3

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business

Local Civil Service Examinations.

The following examinations will be held at Balboa Heights, C. Z., on the dates set opposite the titles thereof:

Clerk, September 21, 1919.

Postal Clerk, September 28, 1919.

Postal Clerk, September 28, 1919.

Stenographer and Typist, September 28, 1919.

Full information in regard to the scope and the character of the examinations is contained in pamphlet form 1424, Information for Applicants for Stenographer and Typewriter Examination, a copy of which may be obtained from the Secretary of the Civil Service Board, Administration Building, Balboa Heights, C. Z. Applicants for the Clerk examination must take at least one optional subject in addition to the regular basis subjects. The optional subjects are: First, typewriting; second, bookkeeping; third, general business training and experience; fourth, timekeeping training and experience. If the third optional is taken, three letters of recommendation from former employers should accompany the application. the application.

the application.
Applicants for the examination for Postal Clerk must show that they have had at least one year's experience as clerk in the United States or Canal Zone postoffices or as postmaster or as Navy mail clerk, and that they are familiar with the receipt, distribution and dispatch of mail matter, the issuance of money orders, registration of mail, and the preparation of various reports required of postmasters.
Application form No. 1312 must be filled out, including the medicial certificate but excluding the county officers' certificate, and should be filed promptly with the Board of Civil Service Examiners at Balboa Heignts. C. Z.
Applicants must have reached their 20th but not their 45th birthday on the date of the examination, must be citizens of the United States, physically sound and in good health.
Applicants must submit to the examiner on the day of the examination their photographs taken within 2 years, securely pasted in the place provided in the admission cards sent them after their applications

2 years, securely pasted in the place provided in the admission cards sent them after their applications are filed.

Applicants for the Clerk examination in answer to question 1 and on the outside of the form should

state the optional subject taken in addition to the name of the examination required.

In answer to question No. 4, applicant must show residence in some State or Territory of the United States from the time of taking up residence therein to September, 1919, on account of temporary employment on the Canal Zone and their retention of legal residence in the United States. The same must be shown as to the county.

Snown as to the county.

This examination is scheduled on the dates shown especially to provide for the examination of soldiers, sailors, marines, field clerks, and enlisted army and navy nurses who were unable to compete after April 6, 1917, and who are allowed 60 days from August 1, 1919, to do so, if they have been discharged prior to that date. Those discharged later will be allowed 60 days after discharge to compete; but, owing to our distance from the United States and the delay in receiving questions, all such persons should compete if possible on the date above mentioned.

These examinations will also be computed any other applicants desiring to be available.

These examinations will also be open to any other applicants desiring to be examined for The Panama

Canal Service.

COMMISSARY NOTE.

Fishing Tackle.

A shipment of fishing tackle recently received has been distributed among Cristobal, Gatun, and Balboa Commissaries. Reels, tarpon hooks, treble hocks, cutty line, record spoons, swivels, and drag handles are some of the items now offered for sale.

Net

5,431 1,502 4,559

65 975

Supply ship, (i) Motor ship. (j) Power schooner.

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Tug.

(f) Collier. (g) U.S.

(e) Tug.

Mine planter.

(g

Dreadnaught.

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Destroyer.

9

(a) Cruiser.

2,628 3,372 4,728 3,059 2,537 1,688

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight, August 23, 1919

Panama Canal tonnage 6,673 6,139 2,764 5,920 4,040 6,706 4,398 3,639 2,655 6,291 2,816 7,719 7,235 8,284 2,407 5,933 4,763 4,249 694 Gross 8,783 281 ů, r. 1,612 4,600 6,700 1,443 8,484 7,036 2,131 7,948 9,087 2,530 7,500 8,000 6,026 3,000 9,739 9,000 5,387 1,926 3.267 Tons 2, General Coal General......Ballast..... Army supplies... Coal and coke ... Coal Ballast..... Petroleum.... Coal....Gen., steel. General General..... General, coal.... General..... General..... General.... General..... Iron, cotton. Cargo General... Navy coal. Crude oil. General. General General San Francisco. San Francisco. San Francisco. San Francisco. Tocopilla..... Valparaiso.... Guayaquil.... Dunedin.... San Francisco. Valparaiso.... Valparaiso.... Amapala.... Catieo..... Yokohama. Valparaiso. San Diego. San Pedro. San Diego. Coonimbo Shanghai. Honolulu. Los Vilos. Brisbane. For Balboa. Rio de Janiero Norfolk. New Orlcans.. Norfolk..... Norfolk.... Fampico New York. New York. New York. New York. Cristobal .. New York. New York. New York. Beaumont. New York. Baltimore. New York New York. Baltimore. New York New York From Norfolk... Hampton Cristobal. Cristobal Cristobal Cristobal Cristobal London. Norfolk. Salt water draft -08 တ္က 000 51.7 16.0 22.0 7.0 51.6 22.0 15. 27. 20. 2828282 THROUGH THE CANAL-ATLANTIC TO PACIFIC. Beam 10-4100 0,00 0 01 55. 440. 57. 57. 26. 43. 000 Length 441.0 339.0 350.0 267.3 387.0 000 00 253 385 314 314 624 360 412. 331. 445. 424. 424. 120. 359. 246. 456. 360 87. 360. Nippon Ynsen Kabushiki Kaisha United States Navy. Nippon Yusen Kabushiki Kaisha W. Wilhelmsen United States Navy.

Pacific Steam Navigation Co...

Pacific Steam Navigation Co... Pacific Steam Navigation Co.... South American Steamship Line. United States Navy..... British India Steam Nav. Co... Ellerman Lines, Ltd..... United States Navy. United States Navy. United States Navy. Chile Steamship Company..... Union S. S. Co. of New Zealand. United States Navy. United States Navy..... Osaka Shosen Kaisha..... United States Shipping Board. United States Shipping Board. United States Shipping Board. United States Shipping Board. Andrew Weir and Company... Alfred Holt and Company.... United States Shipping Board Navigation Co. Standard Transportation Co. United States Navy. Ellerman Lines, Ltd. United States Navy. Line British.... American... American... American... American... American... Japanese.... American... American... Japanese.... Norwegian.. American... Nationality American... British.... British.... Chilean... American, American. American. British... American. American. American. American. American Japanese Swedish. British... British... 18 18.16 242428 18.30 16 12 12 Cleared for sea Mour 22 22 ... 2020 22. 23 . 53 Day 17 2021 222222 2222 05 47 23 22 28 Completed transit 9. Hour 20. 3333 222 Day 222222 2222 527755 35, 42 24 000 Entered Hour 13. Canal 333 5355 Day 555 222222 20.20 111.47 12.00 18.33 16.28 6.20 88 37 55 13 5.06 12.24 22.23 8.40 8.40 8.42 8.42 17.42 52 Arrived port Hour 20. 19. 7.5 22...2 27.17.7 22 2222230 17 17 16 222 Day KanagawaMaru S. S. Bath(k) Chile..... Balsto..... Tatsuno Maru.. and Target 54. Cauca..... tophersen (i). amaha.... Crabtree..... Calvert..... Palena..... Brutus (f).... Guatemala..... Salem (a)..... Eastern Oneen. (daho (c)..... Miraflores (e).. Melbourne... Mineric..... Williams (b)... ea (b)..... Alcinous..... Nuddea.... rane (b)..... Cranenest..... Raifuku Maru. Sea Rover (g) La Habra.... Aroostook (d) Winchester Pedro Chris-Orotina. (j). Santa Luisa Ship Tity of Tity of

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(k) Sugar, ore, hides, steel. (l) Lumber, flour, and canned goods. (m) Sugar, coffee, broomroot.
PORT OF CRISHOLD I.

		For	New York, New York via Port Limon, New York via Port Limon, New York, New York, New York, New York, New York, New York and Kingston. Kingston. New York and Haili.	
	*DEPARTURES	Line	United States Shipping Board. United Fruit Company. United States Shipping Board. United States Shipping Board. United States Shipping Board. United States Shipping Board. United Fruit Company. United Fruit Company. Lindsay Nean Hunter. United Fruit Company. Parama Railroad Steamship Line	
		Vessels	Lake Wilson Atenas Atenas Indicalebury Panama Lake Hurst, Cartago Tivives Nemesis, Nemesis, Abangarez, Gen, H. F. Hodges,	
FORL OF CRISIOBAL.		Date	Aug. 17. Aug. 19. Aug. 20. Aug. 20. Aug. 21. Aug. 22. Aug. 22. Aug. 22.	ALBOA.
FORE OF		From	New Orleans. New York and Hakna. New York and Haiti. New York and Kingston. Cartagena. Cartagena. Genoa via wayports. Tampiro, Mextoo. High seas for repairs.	PORT OF BALBOA
	*ARRIVALS	Line	United Fruit Company. United Fruit Company. New York and Habana. Panama Railroad Steamship Line. New York and Haiti. United Fruit Company. Panama Railroad Steamship Line. New York and Kingston. Cartagena. Cartagena. La Veloce Steamship Line. Genav via wayports. H. E. Moss & Company. Tampico, Mexico. United States Shipping Board. High seas for repairs.	
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	Hongkong. Tacoma.	
*DEPARTURES	Aug. 17 Selvo Maru Toyo Kisen Kaisha Hongkong. Aug. 23 Lake Sanford United States Shipping Board Tacoma.	
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	Aug. 17 Aug. 23	
	High seas. Mukilteo. Mukilteo.	Co. Callao.
*ARRIVALS	United States Navy. Charles Nelson. Charles Nelson.	Central & South American Cable Co. Callao. United States Shipping Board Valparaiso.
	Melville (n) Mukilteo Charles Nelson	Guardian (o) Lake Sanford
	Aug. 16 Aug. 12	Aug. 20

*Other than ships passing through the Canal. (n) Supply ship. (o) Cable ship.

Deceased Employees.

The estates of the following deceased employees of The Fanama Canal or the Panama Railroad The estates of the following deceased employees of the ranama Canal or the ranama Kaliroac Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by-	Date of death.
Hubert Thompson Arnold Green			Red Tank Panama	Operation and Main. Dredging Div	August 13, 1919. August 17, 1919.

Official Circulars.

Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT,

BALBOA HEIGHTS, C. Z., June 17, 1919.

CIRCULAR No. 203:

Effective June 16, 1919, Mr. T. C. Morris, Assistant Engineer, is designated an accountable official of The Panama Canal, vice Mr. Hartley Rowe, and as such will account for all nonexpendable property in use in the Building Division. H. A. A. SMITH,

Auditor, The Panama Canal. CHESTER HARDING,

Governor.

Cable Notice.

PANAMA RAILROAD COMPANY, Office of Master of Transportation, Balboa Heights, C. Z., August 20, 1919. To agents and operators—The following information has been received from the Central and South American Telegraph and Cable Company: "Manila-Shanghai cable repaired, Direct com-

munication with China and Siberia is restored.

W. J. BISSELL, Acting Master of Transportation.

Leave of Absence and Time Limit on Quarters of Employees Delayed by Strikes.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., August 23, 1919.

Balboa Heights, C. Z., August 23, 1919.

To all concerned—In accordance with the following communication from the Washington Office, dated August 7, 1919, the leaves of absence and time limits on quarters will be protected in cases of employees concerned:

"The Panama Railroad Company has been able to secure for us some additional berths on the United Fruit Company steamers during this month, in view of which we will now be able to transport all accumulated and surplus passengers during this month. We have found it necessary. transport all accumulated and surplus passengers during this month. We have found it necessary, however, to assign a few passengers to the Advance sailing August 28, who will arrive on the Isthmus a little overdue on their quarters and leave. This is absolutely unavoidable, and it is assumed, therefore, that you will protect the leaves of absence and family quarters of all Canal employees sailing during the month of August. We are assuring all passengers accordingly. Copies of our various reservation lists as we send them to the Panama Railroad Company are of course being furnished you, as has been our practice for some time, from which can be obtained the names of all employees as they are scheduled to sail."

By direction of the Governor:

C. A. McIlvaine, Executive Secretary.

Train Service for Labor Day.

PANAMA RAILROAD COMPANY,

Office of Master of Transportation, Balboa Heights, C. Z., August 26, 1919. CIRCULAR No. 1347:

To all concerned—The Panama Railroad will operate regular Sunday schedules on the main line and Las Cascadas branch on Labor Day, Monday, September 1.

No change will be made in the Fort Randolph Branch train schedule for that date. Local freights will not run on Monday, Sep-

Train No. 101, scheduled to leave Cristobal 11.15 p. m., will be held until midnight, Monday, September 1.

W. J. BISSELL, Acting Master of Transportation. Approved: S. W. HEALD

In Charge of Division of Civil Affairs.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., August 22, 1919.

To all concerned—Effective August 27, 1919, and during the absence of the Chief, Division of Civil Affairs, on leave, Nr. C. E. Nevius will be Acting Chief of the Division of Civil Affairs and Acting Administrator of Estates. Mr. S. C. Russell will be Acting Director of Posts, and Mr. J. A. Mitchell will be Acting Shipping Commis-

Approved:

C. A. MCILVAINE, Executive Secretary.

CHESTER HARDING, Governor.

Superintendent.

Sale of Four Kelly-Springfield Motor Busses.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10 a.m., September 26, 1919, and then opened, for the purchase of four Kelly-Springfield motor busses. These busses were operated by the Panama Railroad Company, carrying passengers between Ancon and Balboa up to August I, when same were retired from service. Detailed information and form of pre-posal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

Sale of Three Buildings on Pier 4, Colon.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10 a. m., September 26, 1910, and then opened, for the purchase of taree 1919, and then opened, for the purchase of three buildings known as the armory, the mess hall, and the bath house, located on pier 4, Colon. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

Joint Commission.

Decisions of the Umpire.

In the matter of the claim of Domingo Diaz A., Mrs. Elicia A. vda. de Diaz, Isabel Diaz ae Jimenez, for a portion of the property known as "Io de Caceres," located near Pueblo Nuevo. Amount claimed: At the rate of \$250 per hectare. Decision of Umpire, award No. 202, docket No. 3260, August II, 1919—An award is hereby made against the United States of America, in favor of Mrs. Elicia A. vda. de Diaz, Domingo Diaz A., and Isabel Diaz de Jimenez in the total sum of \$3,978, United States currency, plus interest at the rate of six per centum (6%) per annum from December 5, 1912, the date of the depopulation order of the Canal Zone, until payment or tender of payment of this award is made, for all right, title, and interest wnich the said Mrs. Elicia A. vda. de Diaz, Domingo Diaz A., and Isabel Diaz de Jimenez may possess or may have possessed in and to a portion of the In the matter of the claim of Domingo Diaz A., Diaz A., and Isabel Diaz de Jinnenez may possess or may have possessed in and to a portion of the property known as "Lo de Caceres." consisting of 120½ hectares located within the Canal Zone near Pueblo Nuevo, subject of claim docket No. 3260, including any and all damages sustained by them on account of the expropriation of this property by the United States of America, this award to be paid in the proportions and amounts as follows:

To Mrs. Elicia A. vda. de Diaz, one half thereof (plus interest as above indicated)... \$1,989.00 To Isabel Diaz de Jimenez, one-fourth thereof (plus interest as above indi-

cated). Domingo Diaz A., one fourth thereof (plus interest as above indicated).

Total (plus interest as above indicated).....\$3,978.00

MANUEL WALLS Y MERINO, Umpire.

In the matter of the claim of Domingo Diaz A., Mrs. Elicia A. vda. de Diaz Isabel Diaz de Jimenez, for & portion of the property known as "Lo de Caceres," located near Pueblo Nuevo. A mount claimed: At the rate of \$250 per hectare. Decision of the Umpire, award No. 205, docket No. 3260, August 21, 1919—Referring to my award No. 202, dated August 11, 1919, in favor of the above-named claimants, in the amount of \$3,978, the following explanation is made: is made:

Due to the fact that in connection with a former Due to the fact that in connection with a former stipulation as to the value of improvements on a portion of the tract in question the amount agreed upon was divided and \$3,000 ordered deposited in court; and that it was also stipulated (page 163 of the record) that \$3,000 was the value of the improvements on the section of this same tract now being connected with both of these amounts of \$3,000, the undersigned gained the erroneous impression that the watter of improvements on impression that the matter of improvements on the 120½ hectares had already been settled, and for this reason no mention of improvements was made in my said award No. 202. Having discovered this error, an additional award is therefore made against the United States

of America in the amount of \$3,000 United States currency, for the value of all improvements which existed upon the undisputed 120} hectares of the "Lo de Caceres" property at the time of the expropriation of same by the United States, this award to be paid in the proportions and amounts as follows:

To Mrs. Elicia A. vda. de Diaz, one half thereof

\$1,500.00 To Isabel Diaz de Jimenez, one fourth 750.00 750.00

thereof....

If payment or tender of payment of this award s not made on or before the 21st day of Septem-

ber, 1919, said amount shall thereafter bear interest at the rate of six per centum (6%) per

annum until paid.

Done in the National Palace, Panama, this twenty-first day of August, 1919.

MANUEL WALLS Y MERINO, Umpire.

Current Prices on Coal, Fuel Oil, and Beef.

Coal is being supplied to steamships, including warships of all nations, in transit through the Canal, delivered and trimmed in bunkers, at \$11.50 per ton of 2,240 pounds at either Cristobal or Balboa. For ships not in transit through the Canal, \$11.50 per ton at Cristobal and \$13.50 per ton at Balboa. For ships taking less than carload lots from plants or less than 25 tons from lighters,

the price is \$13 per ton at Cristobal, \$15 at Balboa. Crude fuel oil is delivered to vessels at either Cristobal or Balboa for \$2.00 per barrel of 42

gallons.

994.50

994.50

The following are current prices on fresh beef sold from the cold storage plant of the Canal. The prices will be increased by 25 per cent in cases of sales to United States and foreign naval vessels and commercial ships, including yachts. Prices

and commercial snips, including yaches. These quoted are United States currency, per pound.

Beef hinds, 13 cents; beef fores, 10 cents; beef ribs, entire set, 14 cents; short loins, 18 cents. This beef is from Colombian cattle, slaughtered on the 1sthmus.

Act of Congress.-Sundry Civil Appropriation, 1920.

THE PANAMA CANAL, EXECUTIVE OFFICE,

Balboa Heights, C. Z., August 13, 1919. CIRCULAR No. 600-64:

The extracts from an Act of Congress quoted below are published for the information of all concerned.

CHESTER HARDING,

AN ACT Making appropriations for sundry civil expenses of the Government for the fiscal year ending June 30, 1920, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the following sums are appropriated, out of any money in the Treasury not otherwise appropriated, for the fiscal year ending June 30, 1920, namely:

WAR DEPARTMENT QUARTERMASTER CORPS

Disposition of remains of officers, soldiers, and civilian employees: For interment, or of preparation and transportation to their homes or to such national cemeteries as may be designated by proper authority, in the discretion of the Secretary of War, of the remains of officers, cadets, Secretary of War, of the remains of officers, cadets, United States Millitary Academy, including acting assistant surgeons and enlisted men in active service; interment, or of preparation and transportation to their homes, of the remains of civil employees of the Army in the employ of the War Department, who die abroad, in Alaska, in the Canal Zone, or on Army transports, * * * \$8,451,000; Provided, That during the continuances of the present war the above provisions shall be caralieable in the cases of officers and enlisted be applicable in the cases of officers and enlisted men on the retired list of the Army who have died or may hereafter die while on active duty by proper assignment. sic . *

DEPARTMENT OF THE INTERIOR

*

SAINT ELIZABETHS HOSPITAL

For support, clothing, and treatment in Saint Elizabeths Hospital of the insane from the Army, Navy, Marine Corps, Coast Guard, inmates of

the National Home for Disabled Volunteer Soldiers, persons charged with or convicted of crimes against the United States who are insane, all persons who have become insane since their entry into the military and naval service of the United States, civilians in the quartermaster's service of the Army, persons transferred from the Canal Zone, who have been admitted to the hospital and who are indigent, * * * \$1,000,000;

* DEPARTMENT OF COMMERCE * * * *

COAST AND GEODETIC SURVEY * *

Field expenses: For surveys and necessary re-Field expenses: For surveys and necessary resurveys of the Atlantic and Gulf coasts of the United States, including the coasts of outlying islands under the jurisdiction of the United States: Provided, That not more than \$45,000 of this amount shall be expended on the coasts of said outlying islands, and the Atlantic entrance to the Page Corp. \$115,000. the Panama Canal, \$115,000;

THE PANAMA CANAL

For every expenditure requisite for and incident to the maintenance and operation, sanitation, and civil government of the Panama Caual and Canal Zone, including the following: Compensa-tion of all officials and employees, including \$1,000 additional compensation to the Auditor for the War Department for extra services in auditing accounts for the Panama Canal; foreign and domestic newspapers and periodicals; law books not exceeding \$500, textbooks and books of reference; printing and binding, including printing of annual report; rent and personal services ing of annual report; rent and personal services in the District of Columbia; purchase or exchange of typewriting, adding, and other machines; purchase or exchange, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles; claims for damages to vessels passing through the locks of the Panama Canal, as authorized by the Panama Canal Act; claims for losses of or damages to property arising from the conduct of authorized business operations; claims for damages to property arising from the maintenance and operation, sanitation. from the maintenance and operation, sanitation, and civil government of the Panama Canal; acquisition of land and land under water, as authorized in the Panama Canal; acquisition of land and land under water, as authorized in the Panama Canal Act; expenses incurred in assembling, assorting, storing, repairing, and selling material, machinery, and equipment heretofore or hereafter purchased or acquired for the construction of the Panama Canal which are unserviceable or no longer needed, to be reimbursed from the proceeds of such sales; expenses incident to conducting hearings and examining estimates for appropriations on the Esthmus; or like character not foreseen on the Isthmus; or like character not foreseen or otherwise provided for herein; per diem allowance in lieu of subsistence when prescribed by the Governor of the Panama Canal, to persons engaged in field work or traveling on official business, pursuant to extend 1.5 feb. Service (1.5) held work or traveling on official business, pursuant to section 13 of the Sundry Civil Appropriation Act approved August 1, 1914; and for such other expenses not in the United States as the Governor of the Panama Canal may deem necessary best to promote the maintenance and operation, sanitation, and civil government of the Panama Canal, all to be expended under the direction of the Governor of the Panama Caral and accounted for as follows: and accounted for as follows:

For maintenance and operation of the Panama Canal, salary of governor, \$10,000; purchase, inspection, delivery, handling, and storing of material, supplies, and equipment for issue to all departments of the Panama Canal, the Panama Railroad, other branches of the United States Government, and for authorized sales, payment in lump sums of not exceeding the amounts authorized by the Injury Compensation Act approved September 7, 1916, to alien cripples who are now a charge upon the Panama Canal by reason of injuries sustained while employed in the construction of the Panama Canal, \$7,547,939, together with all moneys arising from the conduct For maintenance and operation of the Panama together with all moneys arising from the conduct

of business operations authorized by the Panama

For sanitation, quarantine, hospitals, and medical aid and support of the insane and of lepers, and aid and support of indigent persons legally within the Canal Zone, including expenses of their deportation when practicable, and including additional compensation to any officer of the United States Public Health Service detailed with the Panama Canal as chief quarantine officer,

For civil government of the Panama Canal and Canal Zone, district judge at the rate of \$7,500 per annum from March 1, 1919, district attorney, \$5,000, marshal \$5,000, and for gratuities and necessary clothing for indigent discharged prisoners, \$702,000;

For completing in every detail two sea-going coal barges now under construction by contract

coal barges now under construction by contract entered into by the United States Shipping Board Emergency Fleet Corporation acting for the Panama Canal, to the extent that it was acting within the limits of the authority of the Panama Canal under the act approved June 12, 1917, (Fortiet, Statutes at Large, page 177), \$364,949 each, or so much thereof as may be necessary, in addition to \$800,000 each appropriated for two sea-going barges in said Act: Provided, That the limitation contained in said Act that the total cost of each barge shall not exceed \$800,000 each is hereby removed, \$729,898.

In all, \$9,829,837, to continue available until

In all, \$9,829,837, to continue available until

expeuded.

Except in cases of emergency, or conditions arising subsequent to and unforescen at the time of submitting the annual estimates to Congress, and except for those employed in connection with the construction of permanent quarters, offices, and other necessary buildings, dry docks, repair shops, yards, docks, wharves, warehouses, storehouses, and other necessary facilities and appurtenances for the purpose of providing coal and other materials, labor, repairs, and supplies, and except for the permanent operating organization. expended. and except for the permanent operating organization under which the compensation of the various positions is limited by section 4 of the Panama Canal Act, there shall not be employed at any time during the fiscal year 1920 under any of the foregoing appropriations for the Panama Canal any greater number of persons than are specified in the notes submitted, respectively, in connection with the estimates for each of said appropriations in the annual Book of Estimates for said year, nor shall there be paid to any such person during that fiscal year any greater rate of compensation than was authorized to be paid to persons occupying the same or like positions on July 1, 1918; and all employments made or compensation increased because of emergencies or conditions so arising thall be specifically set forth, with the reasons therefor, by the governor in his report for the fiscal year 1920. In addition to the foregoing sums there is appropriated, for the fiscal year 1920 for expenditures and reinvestment under the several heads of appropriation aforesaid without being covered in any greater number of persons than are specified

appropriation aforesaid without being covered into the Treasury of the United States, all moneys received by the Panama Canal from services renreceived by the Panama Canal from services rendered or materials and supplies furnished to the United States, the Panama Railroad Company, the Canal Zone Government, or to their employees respectively, or to the Panama Government, from hotel and hospital supplies and services; from renals, wharfage, and like service; from labor, materials, and supplies, and other services furnished to vessels other than those passing through the Canal, and to others unable to obtain the same elsewhere; from the sale of scrap and other by-products of manufacturing and shop operations; from the sale of obsolete and unserviceable ny-productsol manulacturing and shop operations; from the sale of obsolete and unserviceable materials, supplies, and equipment purchased or acquired for the operation, maintenance, protection, sanitation, and government of the Canal and Canal Zone; and any net profits accruing from such business to The Panama Canal shall annually be covered into the Treasury of the United States.

In addition there is a proposition of the control of the

In addition there is appropriated for the operation, maintenance, and extension of waterworks,

1.25 1.25

sewers, and pavements in the cities of Panama and Colon, during the fiscal year 1920, the necessary portions of such sums as shall be paid as water rentals or directly by the Government of

Approved, July 19, 1919.

Act of Congress.-Deficiency Appropriation, 1919.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., August 13, 1919. CIRCULAR No., 600-62:

The extracts from the Act of Congress quoted below are published for the information of all

CHESTER HARDING,

Governor.

AN ACT Making appropriations to supply deficiencies in appropriations for the fiscal year ending June 30, 1919, and prior fiscal years, and for other purposes.

and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled. That the following sums are appropriated, out of any money in the Treasury not otherwise appropriated, to supply deficiencies in appropriations for the fiscal year ending June 30, 1010, and prior fescal years and fear there. 30, 1919, and prior fiscal years, and for other purposes, namely:

> DEPARTMENT OF STATE FOREIGN INTERCOURSE

For relief and protection of American seamen in foreign countries, and in the Panama Canal Zone, and shipwrecked American seamen in the Territory of Alaska, in the Hawaiian Islands, Porto Rico, and the Philippine Islands, \$60,000.

DEPARTMENT OF THE INTERIOR

SAINT ELIZABETHS HOSPITAL

For support, clothing, and treatment in Saint Elizabeths Hospital of the insane from the Army, Navy, Marine Corps, Coast Guard, inmates of the National Home for Disabled Volunteer Soldiers, persons charged with or convicted of crimes against the United States who are insane, all persons who have become insane since their

\$100,000, to be available until expended.

Approved, July 11, 1919.

Act of Congress.—Army Appropriation, 1920.

THE PANAMA CANAL,

EXECUTIVE OFFICE

BALBOA HEIGHTS, C. Z., August 13, 1919. CIRCULAR No. 600-63.

The extracts from the Act of Congress quoted below are published for the information of all

CHESTER HARDING. Governor.

AN ACT Making appropriations for the support of the Army for the fiscal year ending June thirtieth, nineteen hundred and twenty, and

thirtieth, nineteen hundred and twenty, and for other purposes.

Be il enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the following sums be, and they are hereby, appropriated, out of any money in the Treasury not otherwise appropriated, for the support of the Army for the year ending June thirtieth, nincteen hundred and twenty: * xk: *

MEDICAL DEPARTMENT

MEDICAL AND HOSPITAL DEPARTMENT

For the manufacture and purchase of medical and hopsital supplies, including disinfectants for and hopsital supplies, including districtants for military posts, camps, hospitals, hospital ships, and transports, for laundry work for enlisted men and Army nurses, while patients in a hospital and supplies required for mosquito destruction in and about military posts in the Canal Zone:

* * * \$4,500,000.

HOSPITAL CARE, CANAL ZONE GARRISONS

For paying the Panama Canal such reasonable For paying the Panama Canal such reasonable charges, exclusive of subsistence, as may be approved by the Secretary of War, for caring in its hospitals for officers, enlisted men, military prisoners, and civilian employees of the Army admitted thereto upon the request of proper military authority: Provided, That the subsistence of the said patients, except commissioned officers, shall be paid to said hospitals out of the appropriation for subsistence of the Army at the rates provided therein for commutation of rations for enlisted patients in general hospitals, \$50.000. \$50,000.

Approved, July 11, 1919.

Increased Rates at Hotel Aspinwall, Toboga.

In order to make unnecessary the closing down of the Hotel Aspinwall on account of loss, the rates have been increased slightly. following rates have been established, effective August 1: 0

The state of the s	
Employees: Dinner, lodging, and breakfast	\$2.00
Employeesper day	2.75
Children under 12 years of ageper day	1.25
Servants of employeesper day	1.50
Employees for stay of 7 daysper day	2.00
Reduction of 10 per cent on above rates for stay of 30 days. Reduction of 10 per cent for families of four or more for over 7 days' stay.	
	2 50
Nonemployeesper day	3.50
Children of nonemployees (under 12 years of age)	1.50
Servants of nonemployeesper day	1.75
Meals:	
Breakfast	1.00
T1	1 05

Luncheon.....

COMMISSARY NOTES.

Porch Shades.

Porch shades recently received from the United States are meeting with considerable favor in the line stores.

Books.

Books of the Modern Library, a number of titles in which has recently been received, are on sale in all commissaries.

Frinit.

A small quantity of fruits was received by steamship Allianca. They were of very good quality and received in first-class condition.

Baking.

It is very difficult to obtain "Crisco" in sufficient quantities for our trade. The manufacturers state that they are considerably oversold and do not know when they will be in position to fill orders.

Electric Utensils.

After long delay a shipment of electric irons, grills, and percolators, much in request among commissary customers, has been received and distributed to the line stores.

Books.

Books received:

"Four Horsemen of the Apocalypse" (110th Edition), "La Bodega," "Blood and Sand," "Shadow of the Cathedral," by Blasco Ibanez; "Prefaces," by Don Marquis; "Second Marriage," by Viola Meynell; "In Secret," by Robert W. Chambers; "Small Things," by Margaret Deland; "Conrad in Quest of His Youth," by Leonard Merrick; "Tam O' the Scoots," by Edgar Wallace; "Eyes of Asia," by Rudyard Kipling; "The Magnificent Ambersons," by Booth Tarkington; Complete Works of O. Henry (edition de luxe), \$19.30.

Straw Hats.

Manufacturers from whom the Commissary Division buys large quantities of straw hats, have called attention to conditions now prevailing in that industry. They state that since the first of July, which was the opening of their 1920 sample line, they have sold almost as many goods as during the entire season of 1918-19. Similar reports have been received from other sources and it is believed that prices for straw hats are almost certain to advance in the near future.

Extract of Vanilla Process.

The method used by the Commissary Division in the manufacture of "Pure Extract of Vanilla" is worthy of public notice, since there are very few manufacturers of this article who allow their product properly to age in casks, as is done here, for it must be borne in mind that aging vastly improves the flavor in the culinary product. As a rule, this aging is carried on only from one day to three months by manufacturers of this product in the United States, while here on the Isthmus it is from six to ten months, obviously producing a superior article.

Isthmus it is from six to ten months, obviously producing a superior article.

The true Mexican vanilla bean, the fruit of the plant of the Vanilla planifolia, or flat-leaved vanilla, is the only bean used by this department, this being the choicest quality. Such beans as the Bourbon, Seychelles, Mauritius, Tahiti (Vanillons) are of an inferior grade. It may be of interest to know that Vanillin, an ingredient of the bean, imparts most of the odor, while the resins impart the taste and the aging forms the aromatic ethers so necessary to a high-grade product. The cheaper compound extracts of vanilla are most commonly made with synthetic vanillin and coumarin and no beans. In the process used by the Commissary Division, the beans are finely chopped, sugar added and the mixture pounded, transferred to a receptacle and alcohol and water added, mixed well, stoppered and occasionally agitated for six months, then filtered. The sizes put up by the Industrial Laboratory are: 2-ounce bottles 14 cents, 4-ounce bettles 25 cents, 8-ounce bottles 40 cents. There are always about 20 casks, or 1,000 gallons, of extract in the making, having an approximate value of \$5,000.

THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address The Panama Canal Record, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C. Entered as second-class matter February 6, 1918, at the Post Office at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII. Balboa Heights, C. Z., September 3, 1919.

No. 3.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending August 30, 1919.

				Car	go
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
b	D : C C	4	4 .05	Tons.	Tons.
Potosi	Pacific Steam Navigation Co	August 24	August 25	430	47
Kilpatrick	United States Government	August 24	August 29	1,058	42
Geo. W. Elder	Pacific Mail Steamship Line United Fruit Company	August 24 August 25	August 30 August 25	1,816	1,664
Balbos	Terminal Shipping Agency	August 25	August 29	575	19 348
Acajutla	Pacific Steam Navigation Co	August 25	August 29	1,020	1,030
Ucavali	Peruvian Steamship Co	, 114gust 20	August 26	1,020	1,935
William Green	Anglo-American Steamship Co	August 26	August 29	9,000	(*)
Allianca	Panama Railroad Steamship Line		August 27		2,210
City of Para	Pacific Mail Steamship Line		August 27		2,189
Turrialba	United Fruit Company	August 27	August 28	1,052	40
Middlebury	Panama Railroad Commissary	August 27		450	
Mantaro	Peruvian Steamship Co	August 27		2,534	
Aysen	United Fruit Company	August 27			
Peru	Pacific Steam Navigation Co		August 28		603
Gen. O. H. Ernst	Fanama Railroad Steamship Line.		August 28		4,366
Laura C. Hall	Anglo-American Steamship Co	August 27	August 29	62	49
Tivives	United Fruit Company	August 28	August 28	2	l
Metapan	United Fruit Company	August 28	August 29	1,191	139
Manavi	Pacific Steam Navigation Co Pacific Steam Navigation Co	August 28		714 828	
Jupiter	United States Navy	August 29	August 29	15	(#)
Caribbean	Panama Railroad Commissary	August 29	August 25	427	(*)
Fairhaven	Anglo-American Steamship Co	August 30		700	
Colon	Panama Railroad Steamship Line.	August 30		3,880	
				, 5,000	

*No cargo laded.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending August 30, 1919.

				Carg	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Mukilteo Charles Nelson Paraiso Laura C. Hall City of Para Fairhaven Manavi Peru Jamaica Balboa Laura C. Hall George W. Elder. Wilhelmina	Charles Nelson Company. Charles Nelson Company. Oliver J. Olsen Pacific Metals Corporation Pacific Mail Steamship Company. Fairhaven Steamship Company. Pacific Steam Navigation Co. Pacific Steam Navigation Co. Pacific Steam Navigation Co. Pacific Metals Corporation. North Pacific Steamship Co. Matson Navigation Co.	August 12. August 12. August 24. August 24. August 27. August 27. August 27. August 28. August 28. August 29. August 29. August 29. August 29. August 29. August 30.	August 27. August 27. August 24. August 25. August 27. August 30. August 28. August 28. August 29. August 29. August 29. August 29. August 30.	95 1	

(*) Reported August 17, 1919.

Notice to Mariners.-Light Extinguished, Roncador Bank, Caribbean Sea.

THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., August 23, 1919.

CIRCULAR No 643-62:

Roncador Bank Light U was struck by lightning and installation damaged. Light will be repaired and relighted as soon as practicable.
H. O. Charts 21-1007-1290-945-394-1374.
H. O. Light List Vol. 1, 1919, No. 1432 D.
Light List Atlantic and Gulf Coasts, 1919, page 388, No. 2303.

H. O. Pub. 130-1918, page 202.

CHESTER HARDING. Governor.

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight, August 30, 1919.

	Canal	lage	Net	7,462	587 1,856	4,595	2,582	4,944		3,389	2,628		639	1	5,270	320	7.0	5,606	2,644	1,535			1,906 4,963 3,033 1,572
	Panama Cana	connage	G ross	9,882	986 2,970	5,933	3,959	6,369		4,702			1.14		7,220	1,273	130	10,631					2,994 6,592 4,182 2,649
		Tons		5,000	4,300	7,355	4,734			5,760	4,106				1,017	348	10,560		3,529				2,600 6,172 5,000 1,441
		Cargo		General Ballast	Ballast	General and oil	General	General		Petroleum, nap'a	General		General		Army supplies General	General	GeneralStores and coal	Petroleum	General Nawy coal	General General			Railroad ties General General
		For		Sydney	Salina Cruz Balboa	ShanghaiCoronel.	Valparaiso	San Francisco.	Mare Island	Brisbane.	Talcahuano	San Diego	San Diego		Sydney	Guayaquil Esmeraldas	Buenaventura. San Francisco.	Wellington	Yokohama.	San Francisco.		,	South Hamp'n Copenhagen United King Bilbao, Snain.
		From				Port Arthur		~~	6 Norfolk Norfolk	Je-14 (3 New York.	New York	New York		6 Middlesbor'gh.		6 New York	S London.			(f) Collier.		6 San Francisco. 0 Talcahuano.
IC.	5	water draft		28.0	22.1	24.4	23.4		25.0	328	1215	3 =	===		27.	520	30.0	24.2		9.5	1	ANTIC.	23.6 23.6 21.0 20.0
O PACI		Beam		58.8	40.0	51.0		50.0	35.5	52.0 38.6	46.2	33.0	33.0	9	51.0	20.1	65.5	54.9	45.0	38.0	hooner	TO ATL	49.8 54.0 46.0 46.2
ANTIC T		Length Beam		460.0	294.0	385.0 389.0	324.0 374.7	430.0 321.7	187.5	3.15 0	324.0	315.0	315.0	5	420.6	190.0	520.0	477.8	325.0	250.0 409.6	(e) Power sehooner.	ACIFIC	267.8 415.0 360.0 266.6
THROUGH THE CANAL-ATLANTIC TO PACIFIC,		Line		Turnbull Martin and Company Oliver J. Olsen	United States Shipping Board.	Kawaski Dockyard Company	United States Shipping Board	Andrew Weir and Company	United States Navy.	Commonwealth Government Pacific Mail Steamship Co	United States Shipping Board	States	Pacific Steam Navigation Co	IT-ited States A	British India Steam Nav. Co.	Colombian Maritime Company.	United States Navy	Shaw Savill and Albion Co. Rotterdamsche Lloyd	Katsuda Steamship Company	Thomas Crowley & Company United States Shipping Board	(d) United States Army Transport. (e)	THROUGH THE CANAL-PACIFIC TO ATLANTIC.	United States Shipping Board United States Shipping Board F. & W. Ritson United States Shipping Board
		Nationality		British		-				British	American		American British	Association	British	American.		British . Dutch.	Japanese	American			American American British. American
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*Other than ships passing through the Canal. (1) Battleship.

Notice to Mariners.—Toro Point Lighthouse, Color of Tower to be Changed.

THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., August 23, 1919.

CIRCULAR No. 643-63:

On or about October 1, 1919, the color of Toro Point Lighthouse Tower will be changed from "WHITE AND RED" to "WHITE."

Owing to the dark background it is believed that white will show a greater con-

trast in colors.

H. O. Charts 945-950-1007-1176-1290-5002.

H. O. List of Lights Vol. 1, No. 1233.

CHESTER HARDING. Governor.

Victory Liberty Bonds.

The Liberty Loan Committee is in a position to accept a limited number of additional applications for $4\frac{3}{4}$ per cent notes of the Victory Liberty Loan, to replace cancellations by employees leaving the service.

Payments may be made in cash, or the amounts may be collected in two installments from September and October earnings by payroll

deduction.

Application forms may be secured at the Collector's Office, Balboa Heights; or a letter addressed to the Collector will be considered sufficient authority to enter a subscription.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Bulletins giving details of the examinations for positions for which Commission. there are likely to be a number of qualified persons on the Isthmus are posted at Canal postoffices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286):

Foreman of heat treatment of projectiles (male); \$8 per day; Foreman of small guns (male), \$8 per day; No. 424; September 23, 1919; form 1371; age, within reasonable age limits.*

Farm economist (male); \$2,500 to \$3,300 a year; No. 416; September 23, 1919; form 2118; age, 25 years but not 45 years.*

Printer's helper (male); \$900 a year; No. 423, September 23, 1919; form 304; age, more than 18

years.*

Foreman, heat treatment of armor plate (male); \$10 to \$14.40 a day; Foreman, heat treatment of large guns (male); \$8 to \$12.56 a day; Foreman, 14,000-ton press for armor and large-caliber guns (male); \$11.84 to \$13.28 a day; No. 424; September 23, 1919; form 1371; age, within reasonable age limits.*

Apprentice map engraver (male); \$700 to \$800 a year; No. 426; September 17, 1919; form 304; age, 16 years but not 18 years.

Woolen expert (male); \$3,000 to \$3,600 a year; No. 430; September 30, 1919; form 1312; age, within reasonable age limits.*

Industrial research clerk, \$1,600 to \$1,800 a year.

Special agent, \$1,400 to \$1,600 a year (male and female); October 8, 1919; form 1312; age, within

reasonable age limits.

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

Comparative Wind Records—Cape Mala, Sosa Hill, and Balboa Heights, July, 1919.

The total wind movement during July, 1919, was 65 per cent greater on Sosa Hill and 22 per cent greater at Cape Mala than at Balboa Heights. The average hourly velocities were as follows: Balboa Heights 6.9 miles, Sosa Hill 11.4 miles, and Cape Mala 8.4 miles.

The prevailing wind direction was from the northwest at all stations, although

southerly winds prevailed at Cape Mala during the daytime.

Maximum wind velocities recorded during the month were 32 miles an hour from the east on the 5th on Sosa Hill, 25 miles from the south on the 28th at Balboa Heights and 58 miles from the northeast on the 27th at Cape Mala. This is the highest wind velocity of record at Cape Mala since the station was established about 2 years ago.

NOTE—Elevation of anemometers: Balboa Heights, 97 feet above ground and 231 feet above mean sea level; Sosa Hill, 35 feet above ground and 405 feet above mean sea level; and Cape Mala, 110 feet above ground and 150 feet above mean sea level.

PANAMA RAILROAD PASSENGER TRAIN TIME-TABLE No. 29, EFFECTIVE SEPTEMBER 7, 1919.

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Official Circulars.

In Charge of Marine Division.

THE PANAMA CANAL. EXECUTIVE OFFICE,

Balboa Heights, C. Z., August 27, 1919. Balboa Heights, C. Z., August 27, 1919. To all concerned—Effective this date, during the temporary absence of Capt. L. R. Sargent, U. S. Navy, Lieut.-Com. John G. Fels, U. S. N. R. F., will act as Marine Superintendent, in addition to his duties as Captain of the Port, Cristobal. Lieut.-Com. Chas. Svensson, U. S. N. R. F., will act as Chairman of the Board of Local Inspectors, with Lieut. M. C. Davis, U. S. Navy, and Capt. H. L. Eden, Assistant Captain of the Port, Cristobal, as members.

Lieut. M. C. Davis, U. S. Navy, will act as Chairman of the Board of Admeasurement, with Mr. Frederick deV. Sill and (during the temporary absence of Mr. F. E. Williams) Mr. Elmer Stetler as members.

as members.

CHESTER HARDING,

Governor.

Acting Magistrate at Balboa.

THE PANAMA CANAL,

EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., August 29, 1919. To all concerned—Effective this date and during the absence of Judge James W. Blackburn, on leave, Mr. Joseph J. McGuigan will perform the duties of Magistrate for the sub-division of Bal-

CHESTER HARDING.

Governor.

Work Performed by Employees for Individuals and Companies.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., August 5, 1919. CIRCULAR No. 641-1: Circular No. 641 is hereby amended as follows:

 Employees are prohibited from performing private work for individuals or companies, which private work for individuals or companies, which is of such a nature that it should be performed by a department or division of The Panama Canal or Panama Railroad Company, unless prior approval has been obtained from the proper authority.

CHESTER HARDING, Governor, The Panama Canal. President, Panama Railroad Company.

Acting Chief Clerk.

THE PANAMA CANAL, EXECUTIVE OFFICE.

Balboa Heights, C. Z., August 27, 1919. To all concerned—Effective this date and during the absence of Mr. John H. Smith, Jr., on leave, Mr. J. C. Kiernan will be Acting Chief Clerk.

C. A. McIlvaine, Executive Secretary.

CHESTER HARDING. Governor.

Approved:

Including Bonus in Estimate.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT BALBOA HEIGHTS, C. Z., August 25, 1919.

HEADS OF DEPARTMENTS AND DIVISIONS:

In making estimates for salaries and wages for the fiscal year ending June 30, 1921, the rates of pay estimated for shall include as part of the base rate from which the rate on the Isthmus is de-termined, the \$240 annual increase authorized by law for certain positions in the United States during the present fiscal year, wherever such increase is applicable; i.e., to the class of positions

to wnich the \$120 annual increase was added

during the last fiscal year.

The total amount added to the estimate on account of the \$240 annual increase, will be reported by each division, in the letter transmitting the estimate.

H. A. A. SMITH, Auditor, The Panama Canal. Approved: CHESTER HARDING, Governor.

Date of Circular No. 660-49.

THE PANAMA CANAL.

EXECUTIVE OFFICE.

BALBOA HEIGHTS, C. Z., August 28, 1919. To all concerned—Please note that the date of circular No. 660-49* should be August 15, instead of August 16, 1919, and all copies should be changed accordingly.

C. A. MCILVAINE, Executive Secretary.

*Published in The PANAMA CANAL RECORD of August 20, 1919.

Sale of Cement Sweepings.

PANAMA RAILROAD COMPANY.

OFFICE OF SUPERINTENDENT. BALBOA HEIGHTS, C. Z., August 28, 1919. To all concerned-The Panama Railroad has on

hand 1,077 sacks of cement ex the steamship General O. H. Ernst, August 20, 1919.

This cement is known as sweepings, or loose cement picked up after the discharge of a steamer There is very little foreign substance to be found in it, and for almost any concrete work, it is just

We will be glad to have you bid on this lot of cement before 3 p. m., Wednesday, September 3, 1919. Please make your bids on the basis of keeping the bags, and also returning the bags to

A charge of 10 cents per bag will be collected when cement is delivered. This charge will be refunded when the bags are returned in usable

S. W. HEALD, Superintendent.

Joint Commission.

Decisions of the Umpire.

In the matter of the claim of Mario Galindo, for In the matter of the claim of Mario Galindo, for the property known as "Chorrillo del Manglar." Amount claimed, \$200,000. Decision of the Umpire, award No. 207, dismissal, rule No. 426, docket No. 3002, August 29, 1919.—The claimant originally estimated the area of this tract as being 14 hectares. At the beginning of the hearing, on November 12, 1918, the attorney for the claimant was willing to reduce the area claimed to a pour 7. was willing to reduce the area claimed to about 7 hectares. The attorney for the Government, by referring to the established boundaries of the adjoining properties, proved that the tract called "Chorillo del Manglar," contained only three and a fraction hectares.

and a fraction hectares.

The deraignment of claimant's titles to the "Chorrillo del Manglar" property is not clear.

The Government has admitted title to the strip of 320 85/100 square meters which the claimant bought out of the Los Pocitos tract, which strip is included in this claim.

Therefore, the claim is hereby dismissed as to any right, title, or interest asserted by this claimant in or to the land contained in the portion of the property known as the "Chorrillo del Manglar."

However, in equity, an award is made were in

However, in equity, an award is made against the United States of America, in favor of Mario Galindo, in the amount of \$320.85, United States currency, covering the value of the above-mentioned 320 85/100 square meters of land and the value of awareness substitutions or other impratus value of any fences, cultivations, or other improve-ments which may have existed on the whole of the property claimed, together with the value of

any damages which the claimant may have susany damages which the claimant may have sustained due to the foreible suspension of his proposed dairy business through the expropriation of the whole property by the United States.

If payment or tender of payment of this award is not made on or before September 29, 1919, said amount shall thereafter bear interest at the rate of

six per centum per annum until paid.

Done at the National Palace, Panama, this twenty-ninth day of August, 1919.

MANUEL WALLS Y MERINO, Umpire.

In the matter of the claim of Alberto B. de Obarrio. Elisa Arosemena de Diaz, Isabel Diaz de Jimenez, and Domingo Diaz A., for properly knoven as "Los Pocilos", located in the Canal Zone adjoining the city of Panama. Area expropriated, 52.600 square meters. Amount claimed, \$104,202. Decision of the Umpire, award No. 206, docket No. 2717, August 26, 1919—An award is hereby made against the United States of America in favor of Alberto B. de Obarrio, Elisa Arosemena de Diaz, Isabel Diaz de Jiminez, and Domingo Diaz A., in the total sum of \$32,055.16, United States currency, plus compound interest at the rate of 6 per centum per annum from December 5, 1912, the date of the depopulation order of the Canal Zone, until payment or tender of payment of this award is made, for all right, title, and interest which the said Alberto B. de Obarrio, Eliza Arosemena de Diaz, Isabel Diaz de Jiminez, and which the said Alberto B. de Obarrio, Eliza Arosemena de Diaz, Isabel Diaz de Jiminez, and Domingo Diaz A., may possess or may have possessed in and to the property known as Los Pocitos situated within the Canal Zone, adjoining the city of Panama, subject of claim docket No. 2717, one-half of which is as adaptable for building purposes as the adjoining District of Chorrillo, Panama City, of which it was a part prior to the Panama City, of which it was a part prior to the expropriation, and the other half containing a quarry, this award to include the value of the quarry and any and all damages sustained by the above-named claimants on account of the expro-priation of this property by the United States of America, and to be paid in the proportions and

amounts as follows: To Alberto B. de Obarrio, ½ thereof (plus compound interest as above indicated).....\$16,027.58 To Eliza Arosemena de Diaz, } thereof (plus compound interest as above indicated) 8,013.79 To Isabel Diaz de Jimenez, & thereof (plus compound interest as above

indicated).. 4,006.89 To Domingo Diaz A., 1 thereof (plus compound interest as above indi-

cated).... 4,006.90 Total (Plus compound interest as

above indicated.). \$32,055.16 Done in the National Palace, Panama, on the 28th day of August, 1919.

MANUEL WALLS Y MERINO, Umpire.

Sale of 95 Carboys of Electrolyte.

Sale of 95 Carboys of Electrolyte.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10 a. m., September 30, 1919, and then opened, for the purchase of 95 carboys of electrolyte, 1.4 specific gravity at 680 F., weighing 13,330 pounds, net, located in Section "K." Electrical Storehouse, Balboa. Detailed information and form of proposal may be had upon application to the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids. any or all bids.

Additions to Commission St.

additions to Commissary Stock,	
Bottles, vacuum, all metal, 1-qt., ea	\$7.00
Brusnes, clothes, scrubbing, ea	.07
Earthenware, Guernsey:	
Jars, bean 1-qt., ea	.59
Jars, bean, 2-qt., ea.	.93
Forks, medium, tinned, ea	.04
	12

Local Civil Service Examinations.

The following examinations will be held at Balboa Heights, C. Z., on the dates set opposite the titles thereof:

Clerk, September 21, 1919.
Postal Clerk, September 28, 1919.
Stenographer and Typist, September 28, 1919.
Full information in regard to the scope and the character of the examinations is contained in pamphlet form 1424, Information for Applicants for Stenographer and Typewriter Examination, a copy of which may be obtained from the Secretary of the Civil Service Board, Administration Building, Balboa Heights, C. Z. Applicants for the Clerk examination must take at least one optional subject in addition to the regular basis subjects. The optional subjects are: First, typewriting; second, bookkeeping; third, general business training and experience; fourth, timekeeping training and experience. If the third optional is taken, three letters of recommendation from former employers should accompany If the third optional is taken, three letters of recommendation from former employers should accompany the application.

Application.

Application.

Application:

Application is for the examination for Postal Clerk must show that they have had at least one year's experience as clerk in the United States or Canal Zone postoffices or as postumaster or as Navy mail clerk, and that they are familiar with the receipt, distribution and dispatch of mail matter, the issuance of money orders, registration of mail, and the preparation of various reports required of postmasters.

Application form No. 1312 must be filled out, including the medicial certificate but excluding the county officers' certificate, and should be filed promptly with the Board of Civil Service Examiners at

Balboa Heights, C. Z.

Applicants must have reached their 20th but not their 45th birthday on the date of the examination, must be citizens of the United States, physically sound and in good health.

Applicants must submit to the examiner on the day of the examination their photographs taken within 2 years, securely pasted in the place provided in the admission cards sent them after their applications are filed.

are filed.

Applicants for the Clerk examination in answer to question 1 and on the outside of the form should state the optional subject taken in addition to the name of the examination required.

In answer to question No. 4, applicant must show residence in some State or Territory of the United States from the time of taking up residence therein to September, 1919, on account of temporary employment on the Canal Zone and their retention of legal residence in the United States.

The same must be shown as the country.

shown as to the county.

This examination is scheduled on the dates shown especially to provide for the examination of soldiers, ailors, marines, field clerks, and enlisted army and navy nurses who were unable to compete after April 6, 1917, and who are allowed 60 days from August 1, 1919, to do so, if they have been discharged prior to that date. Those discharged later will be allowed 60 days after discharge to compete; but, owing to our distance from the United States and the delay in receiving questions, all such persons should compete if possible on the date above mentioned.

These examinations will also be open to any other applicants desiring to be examined for The Panama

Canal Service.

Route Service Jitney-Cristobal-Mt. Hope.

The following is the schedule of the official jitney service between the Terminal building at Cristobal and Mount Hope. Cars stop at the office of the Commissary Division each way:

Leave Terminal Building.		Leave Mo	unt Hope.
A. M.	P. M.	A. M.	P. M.
8.00	12.30	8.15	12.45
8.30	1.00	8.45	1.15
9.00	1.30	9.15	1.45
9.30	2.00	9.45	2.15
10.00	2.30	10.15	2.45
10.30	3.00	10.45	3.15
	3.30		3.45

COMMISSARY NOTES.

Fruits.

The first shipment of grapes of the season was received on the steamer Colon, September 1. Other seasonable fruits and vegetables were received and found ready sale.

Shoe Sale.

A shoe sale covering a large number of attractive models and styles at considerably reduced prices is announced to be held at Balboa and Cristobal Commissaries only, beginning Monday, September 8, 1919.

Books.

A very attractive 24-page booklet, descriptive of The Panama Canal, and containing many views of recent date as well as some taken prior to the completion of the Canal, has recently been stocked by the Commissary Division. A map, table of distances to various ports, and other interesting information are also included. These booklets sell at 20 cents each.

Books received:

"Arrow of Gold" (de luxe edition), by Joseph Conrad; "Chinese Poems," by Arthur Waley; "Lad, a Dog," by Albert Payson Terhune; "Four Horsemen of the Apocalypse" (116th Edition), by Blasco Ibanez.

THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address The Panama Canal Record, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C. Entered as second-class matter February 6, 1918, at the Post Office at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII. Balboa Heights, C. Z., September 10, 1919.

CANAL WORK IN JULY.

The following is the report of the Governor to the Secretary of War of Canal operations during the month of July, 1919:

BALBOA HEIGHTS, C. Z., September 2, 1919.

The Honorable, the Secretary of War, Washington, D. C.

SIR: I have the honor to submit the following report of The Panama Canal for the month of July, 1919:

CANAL TRAFFIC.

The number of ocean-going commercial vessels passing through the Canal for the month was 158, exclusive of 24 United States Navy destroyers, 22 United States battleships, 7 United States cruisers, 4 United States supply ships, 5 United States colliers, 6 United States scout patrols, 2 United States Navy subchasers, 1 United States Coast and Geodetic Survey ship, and 3 United States Navy Coast Guard vessels. The total number of ocean-going vessels was 232, the greatest number which the Canal has handled in any month to date. The large number of Naval vessels was due to the passage of part of the Pacific Fleet to the Pacific, and the transit from Atlantic to Pacific and return of the six battleships of the Naval transit from Atlantic to Pacific and return of the six battleships of the Naval Academy Practice Squadron.

Classifications of the traffic are shown in the following tabulations. The net tonnage of the 158 commercial ships aggregated 513,618 tons, Panama Canal measurement. Their registered gross tonnage was 617,778 tons, and their registered net tonnage 430,519 tons. The cargo carried by them totaled 568,172 tons of 2,240 pounds, of which 7,527 tons were carried as deck load. Ships of 11 different nationalities were included in the month's traffic. The total net tonnage of commercial ships was 6,388 less than that of commercial ships passing through the Canal in June, when 161 ships of 520,006 tons made the transit. The cargo carried was 18,715 tons less than that benefited through the Canal in June.

than that handled through the Canal in June.

The United States coastwise trade was made up of 30 vessels, aggregating 103,542 net tons, Panama Canal measurement, and carrying 131,953 tons of cargo. From the Atlantic to the Pacific, 4 ships with a total net tonnage of 14,426 net tons, Panama Canal measurement, carried 21,679 tons of cargo. From the Pacific to the Atlantic 26 vessels of 89,116 net tons carried 110,274 tons of carge.

The United States Shipping Board operated 2 of the westbound ships in the coast. wise trade, with a net tonnage of 9,994, Panama Canal measurement, carrying 14,687 tons of cargo, and operated 24 out of the 26 vessels eastbound. The net tonnage of the 24 ships aggregated 75,550 and their cargo amounted to 110,274 tons.

In the foreign trade the Shipping Board sent 6 vessels of 10,338 net tons, Panama Canal measurement, through from Pacific to the Atlantic, carrying 14,392 tons of cargo. No Shipping Board ships passed from Atlantic to Pacific in the foreign trade.

Among the principal commodities included in the traffic from the Pacific to the Among the principal commodities included in the traffic from the Pacific to the Atlantic during the month were: Flour, 8 whole cargoes, aggregating 61,623 tons; lumber and ties, 18 whole cargoes, 47,953 tons; nitrates, 5 whole cargoes, 18,537 tons; 3 whole cargoes of sugar amounting to 18,672 tons; barley, 3 whole cargoes, 9,603 tons; 2 whole cargoes of wheat, 12,485 tons; and 27 cargoes of general, amounting to 90,135 tons. Three ships went in ballast from the west coast to Beaumont; their aggregate net tonnage, Panama Canal measurement, was 18,283 tons. The bulk shipments from the Atlantic to the Pacific were: Fuel oil, 25,148 tons, all for the west coast of South America; kerosene, 14,781 tons, of which 8,862 tons were from New Orleans to Shanghai, and 5,919 tons from Port Arthur to Shanghai; petroleum, 12,880 tons, of which 8,251 tons were from New Orleans to Honolulu, 4,629 tons, from New York to San Francisco: coal, 12,915 tons, of which 5,287 tons. 4,629 tons, from New York to San Francisco; coal, 12,915 tons, of which 5,287 tons were from Norfolk, bound for the west coast of South America, 2,947 tons from Baltimore to Guayaquil, and 4,681 tons from London to Auckland; coke, 7,004 tons, all from Baltimore to Callao, one cargo of paraffin oil, 9,138 tons, from New Orleans to Shanghai; and 4,300 tons of crude naphtha from Tampico to San Francisco.

Commercial vessels passing through the Canal on their way to the west coast of South and Central America during July were, by nationalities, as follows:

No.	Nationality.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
15 2 1 2 15 35	British. Chilean. Panamanian Peruvian. United States. Totals.	40,273 6,367 69 7,822 44,183	24,981 3,889 53 3,941 29,303 62,167	30,318 5,570 53 5,005 31,846 72,792	Tons. 25,802 3,367 3,399 47,377 79,945

Of the 35 vessels, 17 with 14,315 tons of cargo originated at the Atlantic terminus of the Canal; 13 with 43,224 tons, came from United States ports; 2 with 13,198 tons of oil, from Tampico; 2 with 9,208 tons of general cargo, from Liverpool, and 1 with no cargo, from Gibraltar.

SERVICES TO CANAL SHIPPING.

Repairs were made on 125 vessels during the month, 61 at Cristobal and 64 at Balboa. Sixteen vessels were dry-docked at Cristobal and 15 at Balboa. Sales of fuel oil to ships from the stock of The Panama Canal were 672.22 barrels to 2 vessels at Cristobal. Coal sales were 27,859 tons to 77 vessels at Cristobal, and 4,775 tons to 20 vessels at Balboa, a total of 97 vessels, receiving 32,625 tons. Water sold included 6,738,490 gallons to 156 vessels at Cristobal and 2,310,750 gallons to 115 vessels at Balboa, a total of 9,049,240 gallons to 271 vessels. Sales of commissary supplies to commercial ships of lines other than that of the Panama Railroad aggregated \$65,071.21, of which \$40,683.25 worth was supplied at Cristobal and \$24,387.96 at Balboa. Laundry service for all ships amounted to \$3,023.21. Tug service performed for vessels using the Canal and the terminal ports was charged at \$22,940.45, of which \$13,470.20 was collected through the office of the Captain of the Port at Cristobal, and \$9,470.25 at Balboa.

STATEMENT OF OPERATIONS.

Details of the business transacted at the Atlantic and Pacific terminals of the Canal are shown in the following tabulation:

Item.	Cristobal.	Balboa.	Total.
Commercial ships making transit of Canal. Net tonnage of commercial ships, P. C. measurement United States equivalent net tonnage of commercial ships. Registered gross tonnage of commercial ships Registered net tonnage of commercial ships. Cargo through Canal in commercial ships, tons of 2,240 pounds Deck load cargo, included in above.	291.408 186.433	91 290 028 320,873 380 370 244 086 332 298 6,627	158 513.618 515 058 671 778 430,519 568,172 7,527
Nationality of commercial ships through Canal: British Chilean Danish French Japanese Norwegian	2	26 2 1 2 4 1	60 4 1 2 8
Peruvian Panamanian Swedish Spanish. United States	23	1 51	5 1 1 74
Total Panama Canal net tonnage of commercial ships through the Canal: British Chilean Danish French Japanese Norwegian Peruvian	1S, 185 5,085	96 899 5,570 3 479 3,934 18,477 5 042 8,220	158 228,758 11,140 3 479 3,934 36,662 5 042 13,225
Panamanian. Swedish. Spanish. United States. Total.	3,900	2 467 145,940 290,028	3,500 2,467 204,958 513,618
United States equivalent net tonnage of commercial ships, through the Canal: British. Chilean.	115,387 3,540	83,039 3.540	198,426 7.080

	Cristobal.	Balboa.	Total.
United States equivalent net tonnage of commercial ships, through the			
Canal—continued:		2.823	2,823
French		2,823 3,840	2,823 3,840 32 021
Japanese. Norwegian.	15,926	16,095	32 021
Peruvian	3,351	4.438 5,803	4,438 9,154
Panamanian	53	0,000	53
Swedish	2,380		2,380
Spanish United States	53,548	2.224 199,071	2,224 252,619
United States		199,071	202,019
Total	194,185	320.873	515,058
British	170,339	127,293	297,632
Chilean	6,367	6,367	12,734 4,395
Danish		4.395	4,395
French. Japanese.	23,652	4,729 24,116	4,729 47,768
Norwegian		6.987	6,987
Peruvian	7,922	12,677	20,599
Panamanian. Swedish.	3,805		69 3 805
Spanish	3,000	3,370	3,370
United States	79,254	190,436	269,690
Total	201 400	200 270	671 770
Total	291,408	380,370	671,778
British	108,949	81,890	189,939
Chilean	3,889	3,889 2,795	7,778 2,795
DanishFrench		2,795	
Japanese	15,183	3,834 14,855	3.834 30.638
Norwegian		4.422	4,422
Peruvian	3,941	7,014	10,955
Panamanian Swedish	53 2,833		53 2,833
Spanish	2,000	2,174	2,174
United States	52,485	123,213	175,698
Total	186,433	244,086	430,519
TotalCargo carried by ships of various nationalities:	100,400	244,000	450,515
British	111,988	95,016	207,004
Chilean. Danish.	3,367	3,135	6,502
French		6,753 3,901	3.901
Japanese	29,560	39,176	59,736
Peruvian		8,952	12,351
Swedish Spanish	2,200	4,100	4 100
United States	85,360	180,265	6,302 6,753 3,901 59,736 12,351 2,200 4,100 265,625
Total	235,874	332,298	568,172
		332,290	500,172
Vessels passing through the Canal free of tolls: U. S. Navy battleships U. S. Navy cruisers.	1.6		0.0
II S Navy cruisers	16	6	22
U. S. Navy destroyers.	24		24
U. S. Navy destroyers. U. S. Navy colliers.	4	1	
U. S. Navy supply ships U. S. Navy scout patrols.	4 3	3	4
U. S. Navy subchaser.	1	1	
Ü. S. Navy subchaser. U. S. Navy coast guard vessels. U. S. Coast and Geodetic survey ship.	2	1	
U. S. Coast and Geodetic survey ship	1		
Total.	62	1:	7-
Launches Net tourage of launches. Panama Canal measurement	2	3	
Net tonnage of launches. Panama Canal measurement	5 125	21 103	2
Tetal ocean-going ships transiting Canal. Total vessels transiting Canal	127	106	22 23
Cargo on which no tolls were charged.	. 27,989	4,000	31.98
	. 4		
Commercial ships through Canal without cargo, but not in ballast	15,060		15 96
Commercial ships through Canal without cargo, but not in ballast			
Commercial ships through Canal without cargo, but not in ballast Net tonnage of above		29,426	29.42
Commercial ships through Canal without cargo, but not in ballast. Net tonnage of above. Commercial ships through Canal in ballast. Net tonnage of above. Total of comercial ships without cargo transiting Canal.	4	29,426	1
Commercial ships through Canal without cargo, but not in ballast. Net tonnage of above. Commercial ships through Canal in ballast. Net tonnage of above. Total of commercial ships without cargo transiting Canal.	4	29,426	1 44 48
Commercial ships through Canal without eargo, but not in ballast. Net tonnage of above	15,060	29,426 7 29,426 5	44 48
Commercial ships through Canal without eargo, but not in ballast. Net tonnage of above	15,060	29,426	1 44 48 4,85
Commercial ships through Canal without eargo, but not in ballast. Net tonnage of above	15,060	29,426 7 29,426 4,859 1	1 44 48 4,85
Commercial ships through Canal without eargo, but not in ballast. Net tonnage of above	15,060	29,426 7 29,426 5 4,859 1,171 \$279,807 70	29.42 1 44 48 4,85 1,17 \$517 309 2
Commercial ships through Canal without eargo, but not in ballast. Net tonnage of above	\$237,501.54	29,426 7 29,426 4,859 1 1,171 \$279,807 70 21,175 92	1 44 48 4,85 1,17 \$517 309 2 21,175.9

Item.	Cristobal.	Balbea.	Total.
Total ships entering port. Total ships clearing from port.	244		471
			945
Total ships handled,	1.043,090 1,056.316	876,658	1,919,748 1,883,413
Total, for vessels entering and clearing. Registered gross tonnage of vessels entering, Registered gross tonnage of vessels clearing	. 1,384,244	1,703,755 1,132,309 1,081,023	3,803,161 2,516,553 2,484.910
Total registered gross tonnage of vessels entering and clearing	. 87.308	2,213,332 4 4,844	5,001,463 43 92,152
Gross tonnage of above. Set tonnage of above through Canal Net tonnage of above tonnage o	144,702 43 101,377	8,287 6 9,611	152,989 49 110,988
Vessels passing through Canal, and handling passengers or eargo at	166,716	14,852	181,568
port, entered. Net tonnage of above Gross tonnage of above. Vessels passing through Canal, and handling passengers or cargo at port,	. 41,267 67,475	36 48,857 83,636	90,124 151,111
cleared. Net tonnage of above Gross tonnage of above. Transit cargo arriving. Transit cargo cleared. tons,	70,017	7 46,124 79.863 612,237 612,279	70 88,550 149,880 1,236,886 1,245,563
Local cargo arriving tons. Local cargo shipped tons	42.517	4.111	46.628 4,75 6
Total local cargo handledtons.		5,581	51,384
Total local and transit cargotons. Cargo received by Receiving and Forwarding Agency of P.R.R tons	1,303,736	1,230,097	2,533,833 46 764
Sargo received by Receiving and Forwarding Agency of P. R. R tons Cargo dispat-bed by Receiving and Forwarding Agency of P. R. R tons Cargo rebandled by Receiving and Forwarding Agency of P. R. R tons	39.118 46,087 666	7,646 1,510 5,323	46 764 47,597 5,989
Total cargo handled by Receiving and Forwarding Agency of P. R	85,871 30,545 76	14,479 134 20	100,350 30,679 96
Oal received during July tons Joan supplied Panama Railroad Steamship Line tons Oal supplied Panama Railroad departments tons	12,035 202 1,085		12,035 202 1,085
Coal supplied other steamship lines tons	97 648	4,775	457 32,423 453
Coal supplied Army, including vessels, tons Coal supplied Navy, including vessels, tons Coal supplied The Panama Canal tons Coal on hand, Agust 1 tons	2,624 2,122 132,870	3,128 910 6,463	5,752 3,032 139,333
essels supplied with water. Vater sold to ships. gals essels dry-docked. gals	6,738,490	2,310,750 15	9,049,240 31
Commer ial vessels furnished commissary supplies. Canama Railroad vessels furnished commissary supplies. Other U. S. Government vessels furnished commissary supplics.	115	70	185 9
Total vessels furnished commissary supplies	168	92	260
Commissary cales to commercial vessels:	\$841 01	\$381.56	\$1,222.57
Wholesale groceries Wholesale cold storage Laundry Miscellansous	11,056.78 25,541.85 1,425.44 1,818.17	4,507.07 17,837.12 1,15 1,661.06	15 563 85 43,378 97 1,426 59 3,479 23
Total	\$40,683.25	\$24,387.96	\$65,071.21
Ice Wholesale groceries Wholesale cold storage. Laundry	\$102.00 2,092.23 6,629.80 436.63		\$102.00 2 092 23 6.629 80 436 63
Miscellaneous Total	\$9,791.03		\$9,791.03
ommissary sales to other Government vessels: Ice. Wholesale groceries.	\$370 00	\$505 24	\$875 24
Wholesale cold storage Laundry Miscellaxeous	5.639.95 53,383.37 327.07 1,464.02	3,502 50 29,412 27 424.59 1,037.41	9.142 45 82,795 64 751 66 2,501.43
Total	\$61,184.41	\$34.882 01	\$96 066.42
Tetal commissary sales to vessels		\$59,269.97	\$170,928.66

Item.	Cristobal.	Balboa.	Total.
Fuel oil issued to U. S. Navy. barrels. Fuel oil issued to U. S. Army barrels Fuel oil issued to Canal departments barrels Other sales, issues, and consumption at plant. barrels.	205.02 465.29 5,434.41 239.50	23,477.78 349.38	205 00 467.20 28,912.19 588.88
Total furnished from Canal tanks. barrels. Fuel oil on hand August 1 barrels. Other oil pumped barrels. Diesel oil on hand August 1 barrels. Passengers arriving, including transit passengers:	6,346.13 32,560.52 277,387.08	23,827.16 118,701.83 37,742.86 1,516.21	30,173.29 151,262 35 315,129.94 1,516.21
First cabin. Other than first cabin.	2,513 7,120	1,546 2,997	4,059 10,117
Total	9,633	4,543	14,176
First cabin. Other than first cabin.	2,889 6,545	1,534 3,000	4.423 9,545
Total	9 434	4,534	13,968
Total movement of passengers	19,067	9,077	28,144
First cabin Other than first cabin	1.091 1,188	187 67	1.278 1,255
Total Passengers embarking:	2,279	254	2,533
First cabin. Other than first cabin.	1,502 974	185 50	1,687 1,024
Total		235	2,711
Sear · n shipped. Seamen paid off. Seamen deserted.	239 186 38	111 24 1	350 210 39
Seamen lodged, subsisted, and repatriated. Seamen's identification certificates issued: United States citizens. Aliens	25 5 30	14 101	25 19 131
Total seamen handled	523	251	774
Seamen's wages received Seamen's wages disbursed Seamen's wages on hand, July 31	\$12.423 66 \$6.230 75 \$9,240.52	\$1 978 19 \$1,201 88 \$1,599.28	\$14,401 85 \$7,432 63 \$10,839.80
Services to American vessels: Crews shipped. Crews paid off. Shipping articles written.		3	3 3 6
Marine notes of protest noted	12	5	17

LOCK OPERATIONS.

Lockages of commercial vessels were made during the month as follows:

	Number of lockages.		Numi	er of ve	ssels.	
	North.	South.	Total.	North.	South.	Total.
Gatun	86 90	64 68	150 158	96 95	67 68	163 163
Miraflores.	84	67	151	96	69	165

Army and Navy vessels, and vessels operated by The Panama Canal are included in the following summary of all lockages during the month:

Lockages.	Gatun.	Pedro Miguel.	Miraflores.
Commercial lockages, Noncommercial, United States Army and Navy Canal equipment .	52	158 54 34	151 52 31
Total	216	246	234
Commercial vessels. Noncommercial, United States Army and Navy	163 121	163 155	165 144
Total	284	318	309

Water consumed for all lockages amounted to 1,686,370,000 cubic feet, that used at Pedro Miguel becoming available for second use at Miraflores Locks.

The number of lockages made during the month was the greatest of any month since the Canal has been in operation.

Consumption of water during the month was as follows:

	Cubic Feet.			
	Gatun. Pedro Miguel. Mirat			
Lockage. Leakage. Maintenance.	20.000.000	787,600,000 25,930,000 13,850,000	707,190,000 13,500,000	
Total	904,920,000	827,380,000	720,690,000	

The main part of the Pacific Fleet, consisting of 8 battleships, 1 cruiser, 22 destroyers, and 3 miscellaneous crafts, was locked through the Canal during the month. The battleships New Mexico and Mississippi, each of 32,000 tons, with a length of 624 feet and a beam of 97 feet 4½ inches, are the largest vessels which have ever transited the Canal. In the locks eight towing locomotives were used on each, and no difficulty was experienced in their lockage. The entire fleet was locked through without mishap. On July 24th, 1 battleship, 1 cruiser, 1 fuel ship, and 22 destroyers were locked through Gatun Locks southbound, besides 2 commercial ships, 1 north and 1 southbound, making a total of 27 ships passing through Gatun Locks on that day, which is a record. On July 25th, 5 dreadnaughts, and on July 26th, 1 dreadnaught were locked through southbound. The time required for the lockage of the dreadnaughts through Gatun Locks was from 1 hour and 2 minutes to 1 hour and 34 minutes.

METEOROLOGY.

The estimated average rainfall over the Gatun Lake watershed was 11.06 inches, compared with a 9-year mean of 10.89 inches, and the average over the Chagres River basin above Alhajuela was 16.71 inches, compared with an 18-year mean of 14.61 inches. The rainfall for the month was generally deficient except over the upper Chagres drainage basin. The greatest monthly fall was at Porto Bello, totalling 24.23 inches, and the minimum monthly fall was at Cucherbo, 3.60 inches. The greatest precipitation recorded in 24 hours was 3.90 inches, at Porto Bello on the 5th.

Four slight seismic disturbances were recorded at Balboa Heights. They occurred on the 10th, 11th, 17th, and 22d. All were of very slight intensity in the Canal Zone,

and resulted in no damage.

The average Chagres River discharge at Alhajuela was 28 per cent below the 18-year July average, or 2,060 c. f. s. against a mean of 2,846 c. f. s. The Chagres furnished 40 per cent of the Gatun Lake total yield. There were no freshets in the Chagres River with a rise of more than 5 feet at Alhajuela.

The elevation of Gatun Lake varied from a maximum of 85.29 feet on the 1st to a minimum of 84.99 feet on the 26th, averaging 85.12 feet. On July 31, it was 85.26

feet.

There was a decrease in storage of 140 million cubic feet. The draft on Gatun Lake for lockages and electric power was 2,067 c. f. s., compared with 2,014 c. f. s., for last month and 1,729 c. f. s., for July, 1918. The ratio of water used for hydroelectric power to that for Gatun Lake lockages was 2.28 to 1. The Brazos Brook reservoir and the Gamboa pumping plant drew 15,210,000 and 43,540,000 cubic feet, respectively, from Gatun Lake.

ELECTRICAL DIVISION.

Gatun hydroelectric station—The net output of the hydroelectric station for the month of July was 5,136,725 K. W. H., and the computed water consumption was 3,849,877,200 cubic feet. There were no interruptions in service or failure of major equipment at this station. There were 25 spillway gate operations during the month.

Miraflores steam plant—One interruption in high tension service made it necessary

Miraflores steam plant—One interruption in high tension service made it necessary for this station to pick up local load for 3 minutes. Extra boilers were cut in on line on two occasions to insure continuous service on the locks in case of line failure. This was necessary on account of extra heavy lockages while the Pacific Fieet was transiting the Canal.

Total power output—The total net power output for both generating stations was 4,945,525 K. W. H., and the total amount of power distributed to feeders by substations and generating plants was 4,446,725 K. W. H., representing an energy loss of

10.0 per cent.

Transmission line—There was one interruption to transmission service during the month. Line No. 2 failed at 11,32 a. m., on the 23d, interrupting service at Cristobal 3 minutes, Balboa 4 minutes, Gamboa 10 minutes, and Darien 3 minutes. This interruption was caused by crane No. 70 coming in contact with line between towers 1–11 and 1–12 in the Cristobal yard of the Panama Railroad.

Marine work—At Cristobal 12 orders were accomplished, embracing 17 items of repairs and additions on the following vessels: Allianca, Melville, tug Porto Bello,

Caribbean, Salaverry, Keketticut, Panama, tug Tavernilla, General Ernst, Perou, Andra, and Advance. The work in progress on the Middlebury was 50 per cent complete and that on the Culebra 60 per cent complete at the cnd of the month. At Balboa electrical work was performed on the following vessels: Salaverry, submarine C-4, Anubis, Cristobal, Roman, barges Nos. 13 and 29, motorship Cap Palos, tug Gorgona, Trolltind, Transvaal, San Joaquin, Peru, Oraton, Keketticut, Azov, Santa Isabel, Ozette, Ahala, Snetind, Brookland, motorship Cap Finisterre, Mulpua, U. S. S.

Cleveland, Fort Snelling, Fort Sill and Ossining.

New construction work—The building work on the substation batteries at all four stations was completed. Installation of lighting in the new cold storage plant at Mount Hope was carried to 98 per cent of completion and the installation of electrical power equipment to 85 per cent of completion. Fifteen motors were placed in service. Electrical work at the slaughterhouse nearby was advanced to 95 per cent of completion. Installation on Pier 6, Cristobal, was 65 per cent complete. Work was continued on the power plant equipment at Coco Solo, and the exterior electrical work on the scaplane hangar was 95 per cent complete at the end of the month. No work was done on the 6,600-volt extension to the fortified islands at Fort Amador, which remains 99 per cent complete. Installation of permanent armored feeder cable from Miraflores substation to the distribution house for the Miraflores Army post was advanced to 85 per cent of completion, and in the construction of underground duct lines, exclusive of manholes and pipe laterals to buildings at the post, 1,300 feet of 8-way duct and 510 feet of 6-way duct were laid during the month.

SHOPS, FOUNDRY, AND DRY DOCK WORK.

The visit of the Pacific Fleet, incidental to its passage through the Canal, was of interest to the shops on account of work done for the fleet and likely to be done in the future. It is believed that the stationing of this fleet upon the Pacific means the opening of a new field of considerable magnitude for the shops of the Canal, Minor repairs were called for by a portion of the Naval vessels constituting the Pacific Fleet while in the Canal, all of which were handled without delay to any of the ships. The U. S. S. Cleveland remained at Balboa shops for repairs to operating equipment, which work was being carried forward at the end of the month, subject to the provision that the ship must not be disabled to such an extent that she could not be ready for sea on 48 hours' notice.

Repairs to the ex-German vessel *Uarda* (renamed *Salaverry*) were completed, successful sea trials were run, and the vessel was delivered to the Shipping Board on July 14. Repairs to the ex-German vessel *Anubis* (renamed *Paita*) were continued, but considerable delay is experienced by the nonreceipt of two main engine cylinders, numerous pumps, and the other material due from the United States. Most of this material was on board ships at New York at the time the recent shipping strike occurred, and completion of the *Anubis* will be delayed by approximately the equivalent

of the time the vessels were delayed by the strike.

The work on the steamship *Cristobal* of the Panama Railroad Steamship Line has been advancing as far as the undecided questions in connection with her overhaul admit. The structural arrangements within the vessel for carrying oil will differ so materially from those which will be used in case of adherence to coal burning that almost all of the lower part of the vessel is affected, while the proposed modifications for increased passenger-carrying introduced an almost equal number of uncertainties in the upper portion of the vessel. The interference with mails, with the consequent nonarrival of working decisions from the New York office, has thus operated to hamper consistent progress upon the vessel.

The alterations to the steamship Middlebury advanced substantially during the

month.

The steamship Azov was placed in dry dock for repairs to bow and a general overhaul of the machinery. The lower half of her stern is being renewed, together with about 25 pieces of bow plating and a considerable part of her framing system. The

work on the vessel was about half completed at the end of July.

The following vessels arrived for repairs at the Cristobal shops: Schooners Aviator, Linda S., and Centinela, barges Nos. 26, 150, 28, 49, and 3, schooner Lt. Pegoud, steamer Poe, motorboat Orotina, tugs Porto Bello and Tavernilla, U. S. S. Itaska C-2, C-3, scout patrols Nos. 1841, 2232, and 2235, Cyama, Supply No. 1, coal hoist No. 1, subchaser No. 355, U. S. S. Supply, mine planter Graham, launch Psyche, transport Kilpatrick, steamships Advance, Hodges, Achilles, Middlebury, Culebra, General Ernst, Allianca, Caribbean, Panama, San Jose, Cartagena, Ucayali, Eldorado, Abangarez, Lake Wilson, Catalina, Andra, Palena, Bushong, Salvador, Salaverry, Roman,

Santa Marta, West Celeron, Edsito, Manavi, Balboa, Antilla, Quittacas, Kanakee,

Cauca, Oraton, Wayucan, and Finisterre.

Of the above the following were in dry dock during the month: U. S. S. C-2, C-3, steamer Poe, tug Porto Bello, schooners Aviator and Linda S., scout patrols Nos. 1841, 2232, 2235, coal hoist No. 1, barges Nos. 28, 26, 150, 3, 49, and steamship Cartagena.

At the Cristobal shops 131 individual and company job orders were issued during the month, 8 of which were for work on Navy craft, none of which were submarines. Of the remaining 123, forty-four covered repairs to ships making this port or in

transit of the Canal, exclusive of Panama Railroad ships.

Work was performed at the Balboa shops during the month for the following vessels: U. S. S. Algonquin, Charleston, Chicago, Cleveland, Cuyama, Elliott, Houston, Maine, Phillips, Radford, Tarbell, Tacoma, Vermont, Wicks, Wisconsin, motorship Cap Palos, steamships Santa Isabel, Suzanne, Snetind, Ahala, Brookland, Benzonia, Cartagena, Culebra, motorship Cap Finisterre, steamships Cristobal, Eldorado, Fort Sill, Fort Snelling, Fort Russell, Goodspeed, General Ernst, Guardian, Gorgona, Rolph, Joan of Arc, Keketticut, Lake Sanford, La Habra, La Primeria, Laura Hall, Middlebury, Marie de Ronde, Melville, Mulpua, Manavi, Ossining, Ozette, Oraton, Peru, Panama Raranga, San Joaquin, Salaverry, Transvaal, West Wind, Wayucan, and War Cavalry.

The following vessels were in dry dock during the month at Balboa: Steamship Transvaal, motorship Trolltind, launch Limon, steamships Fort Russell, Oraton, Joan of Arc, Uarda, U. S. S. Chicago, launch Vacuum, steamships Benzonia, Brookland, tug

Gorgona, steamships Middlebury, Azer, and Cristobal.

Work on the four new 61-foot steel frame passenger coaches was continued, and two were completed and put into service. These cars, which have been trimmed with native wood of Panama and finished in the natural color, have occasioned pleasing comment.

Foundry output, compared with that of June, was as follows:

	July.	June.
Iron. Steel. Brass.	Pounds. 143,370½ 45,070 19,308	Pounds. 176,027 18,455 17,383

Equipment was hostled as follows: Locomotives, 1,598; cranes, 217; making a total of 1,815. One hundred and seventy-two shop and 1,420 field repairs were made on cars, 808 freight cars were repacked, and 2,259 passenger coaches were packed, cleaned, oiled, and inspected.

BUILDING CONSTRUCTION.

The construction work of the Building Division had reached the following status

Ward group No. 8 of the new Ancon Hospital buildings was completed and turned

over to the Health Department for operation.

Cement block walls of the lumber shed at Balboa were completed during the month. For the Puerto Obaldia radio station work was performed during the month on the construction of the towers, assembling material, etc. This was done at Cristobal, preparatory to sending the construction gang to Puerto Obaldia.

Status of work on other buildings was as follows:

The construction of the abattoir building at Mount Hope was completed, and the installation of equipment was completed except in the offal room and the oleo and lard equipment. The plant was used by the Supply Department during the month. For the canning plant, a small amount of carpentry work was performed dur-

ing the month; the building remained 99 per cent completed.

The boiler house and exterior steam lines of the coal storage plant were 99 per cent complete, and the installation of the boiler advanced from 70 to 90 per cent of completion during the month. The machine shop at Mount Hope was 85 per cent completed, and the carpenter shop there 75 per cent completed. The ten 12-family silver quarters at Mount Hope were 95 per cent completed. The office building for the Central & South American Telegraph Company at Balboa was 25 per cent completed. The tuberculosis ward of Corozal Hospital remained 80 per cent completed. The office for the Lighthouse Section at Gatun was 80 per cent completed. Construction of a temporary bone mill at Mount Hope was brought to completion. Construction of a fumigating shed at Pier 8 was completed. The erection of two houses for a seamen's home at Balboa was 98 per cent completed.

Terminal construction—Pier 6 was practically completed on July 1, except the side

doors, cargo unloading masts, and approaches.

DREDGING DIVISION.

The total excavation by dredges during July was 334,300 cubic yards, as follows:

Cubic yards.	Earth.	Rock.	Character of work.	Stations.	Equipment.
7,400 (a)	7,400		Maintenance	1441 to 1446-50 E. 1424 to 1429-50 W	Paraiso.
9,200 (c)	4,900	4,300	Maintenance	1755-50 to 1765-00 W	Paraise.
5,100 (c)	3,100	2,000	Maintenance	1896-00 to 1902-00 W	Paraiso.
21,300 (e) 120,200 (e) 21,300 (c) 7,000 (f) 10,000 (g) 30,000 (g) 8,500 (g) 94,300 (g)	3,300 120,209 21,300 4,500 30,000 8,500 94,300	2,500 10,000	Maintenance Maintenance Maintenance Aux. Const Construction Maintenance Construction Maintenance	2088-50 to 2093-50 W 2279-65 to 2289-50 W 2186-00 to 2196-00 W Pier 6, Cristobal. Balboa Inner Harbor	No. 84. No. 86. Paraiso. Cascadas. Cascadas.
334,300	297,500	36,800	Total for month		

- (a) Gatun Lake section.(d) Miraflores Lake.
- (c) Gaillard Cut.
 (f) Atlantic terminals
- (c) Pacific entrance.
 (h) Coco Solo.
- (g) Balboa inner harbor.
 (i) Unmined rock.

The following disposition was made of the excavated material: From the Pacific entrance section, 3,300 cubic yards of earth and 18,000 cubic yards of rock were dumped at sea, 120,200 cubic yards of earth were handled through a pipeline 1,400 feet in length to the flats west of the channel, and 21,300 cubic yards of earth were piped 1,700 feet to the San Juan fill. From the inner harbor at Balboa 40,000 cubic yards were dumped at sea, and 102,800 cubic yards of earth were deposited in the Diablo dump "A." A relay pump was used to assist the dredge in this work, with equal lengths of pipeline of 2,600 feet from the dredge to the relay and from the relay to the outfall. Twenty-one thousand seven hundred cubic yards of material excavated north of Gamboa were dumped in Gatun Lake. At the Atlantic entrance, 4,500 cubic yards of earth and 2,500 cubic yards of rock removed from north and south sides of Pier 6 were dumped between the land end of the East Breakwater and Margarita Point.

On August 1 there remained to be excavated from the Canal prism, ocean to ocean, 173,200 cubic yards of earth and rock and from the Cristobal coaling station and Balboa inner harbor, 169,900 cubic yards of earth and rock. The following table shows

the distribution.

Location.	Earth.	Rock.	Total.
Gaillard Cut. Pacific Entrance	61,300	25,000 86,900	25,000 148,200
Total, Canal prism. Cristobal Coaling Station. Balboa Inner Harbor.		111,900 2,100 13,400	173,200 2,100 167,800
Total, Cristobal Coaling Station and Balboa Inner Harbor		15,500	169,900
Grand total—ocean to ocean	215,700	127,400	343,100

Surveys covering all slide areas in the Gaillard Cut, and the Pacific entrance channel from Miraflores Locks to the steel dock south of Balboa harbor were made prior to the passing of the Pacific Fleet from the Atlantic to the Pacific Ocean. All slide areas were dragged and shoals marked.

MUNICIPAL DIVISION.

Jobs completed in July included the completion of the installation of pumps at the Submarine Base, Coco Solo, and water, sewers, and fire protection for barracks and mess hall at the Naval Air Station. The road to the Mount Hope cold storage plant was 85 per cent completed, and the extension of the road to Pier 6; Cristobal, 98 per cent completed. At the Gatun Army post, grading was 65 per cent, track construction, 90 per cent, and the water lines 50 per cent completed. Work in the Ancon Hospital grounds was completed as far as authorized. The concrete platform at Balboa shops building No. 5 was completed. The work on the Army post at Miraflores advanced, grading being 85 per cent, tracks 98 per cent, and the water lines 80 per cent completed at the end of the month.

Water pumped in the southern district amounted to 614,568,000 gallons, and in the northern district to 173,286,500 gallons, making a total of 787,854,500 gallons. This

was an increase of 35,924,750 gallons over the quantity pumped in June. Colon was furnished with 46,593,600 gallons of water, Panama with 87,516,000 gallons and 9,049,240 gallons were supplied to 271 ships. The incinerator at Gavilan Island burned 2,050 tons of garbage and 31 dead animals during the month.

WORKING FORCE. Effective July 23, 1919.

Department or Division.	Gold.	Silver.	Total.
Operation and Maintenance:			
Office	34	47	81
Building Division.	198	1,662	1.860
Electrical Division	210	344	554
Municipal Engineering.	126	2,848	2,974
Lock Operation.	126	629	755
Dredging Division	114	859	973
Mechanical Division	949	1.914	2.863
Marine Division	105	376	481
Fortifications	45	335	380
	10		
Total	1,907	9.014	10,921
Supply Department:	4,000	1,100	
Quartermaster	142	1.848	1,990
Subsistence	25	429	454
Commissary	209	1,453	1.662
Cattle Industry—Plantations	30	667	697
Accounting	200	13	213
Health	241	1.166	1.497
Executive	511	198	709
Panama Railroad:	311	100	100
Superintendent	48	542	590
Transportation	130	280	410
Receiving and Forwarding Agent.	79	1,089	1,168
Coaling Station.	106	894	1,000
Hotel Washington		97	1,000
1000 Habiting Cott		91	102
Grand total	2,633	17,690	21,323

The total gold force at work on July 23 was 343 more than the 3,290 at work on June 18, and the silver force was 619 more than the 17,071 then at work. As compared with the gold force for the corresponding month of last year, reported as of July 24, 1918, the gold force was an increase of 611 over the 3,022 at work on that date, and the silver force an increase of 2,057 over the 15,633 of that day.

The occupation of quarters on July 31, was as follows:

Occupants.	Men.	Women.	Children.	Total.
Americans. Europeans. West Indians	218	2,144 41 2,010	2,595 69 3.809	7,998 328 11,141
Total	8,799	4,195	6,473	19,467

Three hundred and seven new applications for gold family quarters were on file.

PUBLIC HEALTH.

Two hundred and sixty-two cases of malaria were admitted to hospitals. Two deaths occurred from malaria. Influenza cases admitted numbered 37. Six cases of pneumonia were admitted, and one death resulted from pneumonia.

RECEIPTS AND SALES OF MATERIAL AND SUPPLIES.

The value of material received during the month on United States requisitions was \$439,572.67, as compared with \$769,754.37 in June. Of that received in July, \$415,-315.10 was chargeable to operation and maintenance; \$18,301.81 to construction and equipment; and \$5,955.76 to miscellaneous departments. Isthmian cash sales from storehouses and obsolete store amounted to \$29,338.89, of which \$27,092.62 was for stock, \$1,402.20 for scrap, and \$844.07 for obsolete and second-hand material. There were no important sales made in the United States during the month.

were no important sales made in the United States during the month.

The total sales of material from storehouses to steamships, exclusive of fuel oil, commissary supplies, and ice for the month was \$15,593.54. Sales of commissary supplies to all purchasers for the month aggregated \$924.108.70, made up as follows: To steamships, other than United States Naval vessels, \$63,080.18; to The Panama Canal, \$133,205.24; to the United States Government, including sales to the Army and Navy, \$160,321.39, of which sales to the Navy, including vessels in the Pacific Fleet, aggregated \$97,753.93; to individuals and companies, principally through charge accounts in the retail stores, \$16,662.10; to the Panama Railroad, including the Hotel Washington, \$38,705.73; to individuals purchasing with coupons, \$512,-134.06.

FINANCIAL RECEIPTS AND EXPENDITURES.

The cash balance in Canal appropriations on July 31, exclusive of fortifications, was \$17,038,874.99; the balance in fortifications was \$8,094,558.06. Payments from appropriations by the Disbursing Clerk in Washington amounted to \$681,482.14 and by the Paymaster on the Isthmus to \$1,320,888.27. Purchases of commissary books from the Panama Railroad Company amounted to \$301,485.28. Collections of tolls totaled \$538,485.16. Deposits of \$140,325.77 were made with the Assistant Treasurer of the United States to be applied on payment of tolls and other charges against vessels using the Canal. The total Panama Canal collections on the Isthmus were \$1,081,530.74, and collections by the Disbursing Clerk, Washington, \$757,076.56. Receipts from the Canal Zone and miscellaneous funds were \$144,038.49, and disbursements from the same source amounted to \$184,134.14. July pay rolls on the Isthmus aggregated \$1,220,333.31 as compared with \$1,132,073.23 for June, a difference of \$88,260.08.

Respectfully,

CHESTER HARDING,

Governor.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending September 6, 1919.

				Car	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Perou. Carrillo. Aysen. Bologna Parismina Heredia. Manavi. Mantaro. Jamaica. Almelo. Santa Marta. San Juan. Fairhawen. Turrialba. Ellerdale. Advance. Salvance.	Italian Steamship Line. United Fruit Company. United Fruit Company. Pacific Steam Navigation Co. Peruvian Steamship Line Pacific Steam Navigation Co. Royal Netherlands Steamship Co. United Fruit Company. Pacific Mail Steamship Line Anglo-American S. S. Ageney. United Fruit Co. Royal Mail Steamship Company. Panama Railroad Steamship Company. Panama Railroad Steamship Line.	August 31 August 1 September 3 September 3 September 4 September 4 September 5 September 5	September 4 August 31 September 1 September 1 September 2 September 2 September 2 September 2 September 4 September 4 September 4 September 4	27 836 25 940 1,707 11 200 1,736 778	663 \\ 1,453 \\ 631 \\ (*) \\ 393 \\ (*) \\ 1
Middlebury	Panama Railroad Commissary Panama Railroad Steamship Line.				

*No cargo laded.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending September 6, 1919.

				Care	0-
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
				Tons.	Tons.
Manavi	Pacific Steam Navigation Co Pacific Steam Navigation Co Pacific Mail Steamship Co	September 2	September 2		19

Notice to Mariners.-Roncador Bank Light U Relighted.

THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., September 8, 1919.

CIRCULAR No 643-64:

Roncador Bank Light U, previously reported out of commission, was relighted on September 4, 1919:

H. O. Charts 21-1007-1290-945-394-1374.

H. O. Light List Vol. 1, 1919, No. 1432 D. Light List Atlantic and Gulf Coasts, 1919, page 388, No. 2303.

H. O. Pub. 130-1918, page 202.

CHESTER HARDING. Governor.

Roncador Cay, Caribbean Sea.—Reservation for Lighthouse Purposes.

By the President of the United States of America, A Proclamation—
WHEREAS, the Congress of the United States has provided by act of August 18, 1856 (11 U. S. Statutes at Large, page 119; Secs. 5570 to 5578 U. S. Revised Statutes), that whenever any citizen of the United States, after the passage of the act, discovers a deposit of guano on any island, rock, or key, not within the lawful jurisdiction of any other government and shall take peaceable possession thereof and occupy the same, the island, rock, or key may, at the discretion of the President of the United States be considered as appreciaining to the United States. States, be considered as appertaining to the United States.

AND WHEREAS, pursuant to the foregoing act of Congress, Roncador Cay in the western part of the Caribbean Sea is now under the sole and exclusive jursidiction

Now, Therefore, I, Woodrow Wilson, President of the United States, by virtue of the power in me vested, do hereby declare, proclaim, and make known that Roncador Cay, in the western part of the Caribbean Sea, be and the same is reserved for lighthouse purposes, such reservation being deemed necessary in the public interests, subject to such legislative action as the Congress of the United States may take with respect thereto.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of the

United States to be affixed.

Done this fifth day of June in the year of our Lord one thousand nine hundred and nineteen, and of the Independence of the United States the one hundred and forty-third. WOODROW WILSON.

By the President:

WILLIAM PHILLIPS, Acting Secretary of State.

[No. 1522-A.]

New Form of Peddler's Permit.

A new form of peddler's permit to sell articles of food in the Canal Zone has been printed which prohibits the sale of fresh meat and shellfish. These permits are issued without fee upon the condition that the holder shall carefully observe the sanitary regulations of the Canal Zone and shall be subject to the directions of the officials of the Health Department in the conduct of his business.

It is hereby directed that all persons desiring to peddle food in the Canal Zone secure new permits from the Division of Civil Affairs, room 301, Administration Building, Balboa Heights, Canal Zone, on or before October 1, 1919. New permits may be secured in person or by mail. The old form of permits will not be accepted as authority for peddling foodstuffs on or after October 1, 1919.

A copy of the new form of permit is published below.

C. A. McIlvaine, Executive Secretary.

BALBOA HEIGHTS, C. Z., September 5, 1919.

PERMIT TO SELL ARTICLES OF FOOD.

This permit is issued upon the condition that the holder shall carefully observe the sanitary regulations of the Canal Zone and shall be subject to the direction of the officials of the Sanitary Department in the conduct of business. All fcod-stuffs shall be protected against contamination by dirt or insects by being kept in suitable receptacles.

Business conducted in United States Army camps shall be subject to such special

regulations as may be prescribed by the military authorities.

No authority is given under this permit for the sale of any article other than foodstuffs.

Chief, Division of Civil Affairs.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal postcifices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286):

Dairy manufacturing specialist (male); \$1,800 to \$2,700 a year; October 14, 1919; age, under 45

vears.

Animal husbandman (male); \$1,800 to \$2,000 a year; October 14, 1919; form 2112; age, 21 years but not 45 years.3

Assistant animal husbandman (male); \$1,200 to \$1,500 a year; October 9, 1919; form 1312; age, 21 years but not 45 years.

Dairy editor (male); \$2,000 to \$2,500 a year; October 14, 1919; age, 25 years but not 45 years.*

Junior computer (male and female); \$1,020 a year; October 8-9, 1919; form 1312; age, under 30

Research assistant in agricultural geography (male and female): \$1,500 to \$2,000 a year; October 8, 019; form 1312; age, 21 years but not 50 years.

Lithographic pressman (male); \$1,600 a year; No. 431; September 30, 1919; form 1800; age, within

reasonable age limits.*

Assistant fuel engineer (male), \$1,620 to \$2,160 a year; No. 443; October 7, 1919; form 2118; age, applications admitted regardless of age, but at request of department making appointments certifica-

tion will be made of eligibles who have not reached their 36th birthday.*

Engineer, \$3,000 or over a year; assistant engineer, \$1,800 to \$2,880 a year; junior engineer, \$1,200 to \$3,000 a year; engineering draftsman, \$1,200 to \$3,000 a year (male); No. 361-amended, supple-

mental.

The United States Civil Service Commission calls attention to the fact that from the foregoing examinations for which applications may be filed with the Commission at Washington, D. C., at any time until further notice, it is expected that appointments will be made in connection with carrying out the provisions of the soldier land bill in the event this bill becomes a law.

There is a continuing need in the Reclamation Service for eligibles for the positions of assistant engineer and junior engineer, at the salaries indicated above; but the demand for eligibles for the higher-salaried positions of engineer and engineering draftsman is contingent on the soldier land law bill becoming a law.

* Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

Local Civii Service Examinations.

The following examinations will be held at Balboa Heights, C. Z., on the dates set opposite the titles thereof:

Clerk, September 21, 1919.
Postal Clerk, September 28, 1919.
Stenographer and Typist, September 28, 1919.
Full information in regard to the scope and the character of the examinations is contained in pamphlet form 1424, Information for Applicants for Stenographer and Typewriter Examination, a copy of which may be obtained from the Secretary of the Civil Service Board, Administration Building, Balboa Heights, C. Z. Applicants for the Clerk examination must take at least one optional subject in addition to the regular basis subjects. The optional subjects are: First, typewriting; second, bookkeeping; third, general business training and experience; fourth, timekeeping training and experience. If the third optional is taken, three letters of recommendation from former employers should accompany the application. the application.

the application.

Applicants for the examination for Postal Clerk must show that they have had at least one year's experience as clerk in the United States or Canal Zone postoffices or as postmaster or as Navy mail clerk, and that they are familiar with the receipt, distribution and dispatch of mail matter, the issuance of money orders, registration of mail, and the preparation of various reports required of postmasters. Application form No. 1312 must be filled out, including the medicial certificate but excluding the county officers' certificate, and should be filed promptly with the Board of Civil Service Examiners at

Balboa Heights, C. Z.

Applicants must have reached their 20th but not their 45th birthday on the date of the examination.

must be citizens of the United States, physically sound and in good health.

Applicants must submit to the examiner on the day of the examination their photographs taken within 2 years, securely pasted in the place provided in the admission cards sent them after their applications are filed.

Applicants for the Clerk examination in answer to question 1 and on the outside of the form should state the optional subject taken in addition to the name of the examination required.

In answer to question No. 4, applicant must show residence in some State or Territory of the United States from the time of taking up residence therein to September, 1919, on account of temporary employment on the Canal Zone and their retention of legal residence in the United States. The same must be shown as to the county.

This examination is scheduled on the dates shown especially to provide for the examination of soldiers. And sexamination is scheduled on the dates snown especially to provide for the examination of soldiers, sailors, marines, field clerks, and enlisted army and navy nurses who were unable to compete after April 6, 1917, and who are allowed 60 days from August 1, 1919, to do so, if they have been discharged prior to that date. Those discharged later will be allowed 60 days after discharge to compete; but, owing to our distance from the United States and the delay in receiving questions, all such persons should compete if possible on the date above mentioned.

These examinations will also be open to any other applicants desiring to be examined for The Panama

Canal Service.

Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama"; in the United States, "Pancanal, Washington."

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight, September 6, 1919.

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	anal e	Net	506	3,033 620 759 5,342 1,983	4,895 1,713 3,653 6,653 6,185 1,772
	Panama Cans tonnage		12,792 9,506 5,667 4,094	200 200 200 200 200 200 200 200 200 200	
		Gross	12,7	4,584 1,170 1,241 7,488 4,639 2,895	7,015 2,628 4,955 1,164 1,164 2,758
		Tons	4,800 5,667 4,094	925 622 622 9,600 1,400 2,820	7,015 5,977 5,995 2,440 2,628 4,323 4,955 1,165 6,790 8,129 3,060 2,758
	-	Cargo	General.	General General Ceneral Crude oil General	General 5,977 5,995 General 2,400 2,995 General 4,333 4,955 Balast 2,500 2,001 Coke, coal, cem'i 3,000 2,758
		For	West Coast West Coast West Coast Wellington	Balboa. Valparaiso. Buenaventura. Guayaquil Tocopilla. Callao	Wel'ington Yokohama. Seattle. Guayaquil Puntarenas. Valparaiso. Lyttleton Ganyacan. San Pedro. Mare Island.
		From	New York New York New York London, w/p New York	Cristobal 18.1 Cristobal 12.4 Cristobal 14.6 Cristobal 19.0 Tampico 19.6 Cristobal 19.0 New York	22. 4 Carliff. 26.3 New Orleans. 22.5 Santos. 21.3 Liverpool. 19.0 Amsterdam. 28.1 Liverpool. 24.0 Bultimore. 23.0 New York. 10.8 Norfolk.
īC.	Salt	water draft	25.00 27.00 26.00 26.00 26.00	18.1 12.4 14.6 19.6 19.6	22 4 26 3 27 2 27 2 27 2 27 2 28 1 28 0 28 1 28 0 28 1 28 0 28 1 28 0 28 0 28 0 28 0 28 0 28 0 28 0 28 0
PACIF		Beam	30.0 30.0 31.0 63.3 52.3	41 0 33 1 35 1 35 8 46 0 44 0	50.7 51.8 51.8 51.8 62.0 62.0 62.0 62.0 62.0 63.1 36.0
NTIC TO		Length Beam water draft	315.0 315.0 314.0 500.3 318.8	220 0 220 0 216 0 435 3 360 0 289 0	411.4 400.0 283.3 380.3 380.3 447.0 447.0 245.0 328.0 187.0
THROUGH THE CANAL—ATLANTIC TO PACIFIC.		Line	United States Navy. United States Navy. United States Navy. White Stat Lane. United States Shipping Board.	United States Army. South American Steamship Line. Parifie Steam Navigation Co Parifie Steam Navigation Co C. T. Bowring. C. T. Bowring. United States Shipping Board	George Thompson and Co. W. R. Grace and Co. W. R. Grace and Co. Nautisus Steam Shipping Co. Fairhaven Steamship Co. Royal Netherland S. S. Co. White Star Line. United States Shipping Board. United States Navy.
		Nationality	American American Amcrican British	American Chilean British British British Peruvian American.	British. Japanese. American. British. American. Dutch. British. American. American.
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		Day	33.7.	4000000	04444400
	Completed	TuoH	13.07 13.12 13.18 15.14 15.56	17.36 9.39 13.26 13.33 15.03 15.03 9.19	14 17 17 19 25 19 25 19 25 11 14 15 17 10 19 16 20 16 21 15 17 16 21 15 18 17 16 20 16 21 15 25 25 15 25 25 25 25 25 25 25 25 25 25 25 25 25
	Com	Day	222222	20000000	000004400000
		Hour	6.30 6.30 6.40 8.45	9.30 17.10 5.55 6.08 7.40 8.35 15.40	6.20 10.40 12.10 12.26 6.07 11.23 116.30 6.45 6.45
	Entered Canal	Day	222222	2-20020	
		TwoH	10.20 10.21 10.22 10.45 17.20	17.41 19.00 15.34 7.05 16.25 8.36	709871128111
	Arrived at port	Day	88888	2228827	01000013004441010
	-	Ship	Upshur (a) Aaron Ward (a) Roper (a) Corinthic	Gen. Wm. Graham (b)	Adolph Woer- man. Man. Panam Man. Salar Alica. Salar Alica. Fairhaven. Amelo. Tropic. Iake Graphite. Patringe (d). Partinge (d).

(a) Destroyer. (b) Tug. (c) Mineplanter. (d) U. S. Tug, towing barges. (e) Towing target.

ROUGH THE CANAL-PACIFIC TO ATLANTIC.

-	4,785 4,944 4,944 4,932 4,899 6,457 1,609	
	6,759 6,571 6,569 6,567 6,541 8,975 2,473	
	7,616 6,759 7,552 6,571 7,600 6,569 7,253 6,567 8,411 6,541 6,700 2,473	
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Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

PORT OF CRISTOBAL,

	For	yports. Soeas, Habana. to Colombia. Bocas, Limon. I Kingston. Haiti.
		New York. Genoa and wayports. Genoa and wayports. New Orleans, Boeas, Habana. Bordeaux, Porto Colombia. New Orleans, Boeas, Limon. New York and Kingston. Cartagena. New York via Haiti.
*DEPARTURES	Line	United Fruit Company. La Valoes Stramship Line. United Fruit Company. Panama Railroad Sterusship. Line. United States Shipping Board.
	Vessela	Carrillo Bologna Parismina Perismina Peroni Heredia Turrialba. Santa Marta Colon.
	Date	Aug. 31 Sept. 2. Sept. 4. Sept. 4. Sept. 4. Sept. 4. Sept. 4. Sept. 6.
	From	Bordeaux and wayports. New York. New York and Habana. New York and Kingston. Cartagena. London. New York.
		Bordeaux New Yorl New Yorl New Orle New Yorl Cartagens London.
*ARRIVALS	Line	p Line.
*ARRIVALS		ship Line.

PORT OF BALBOA.

Sept. 6 Azov London & Pacific Petroleum Co Paita.		*ARRIVALS			*DEPARTURES	
			Sept. 6	Azov	London & Pacific Petroleum Co	Paita.

Executive Order.—Registry of Foreign Built Vessels.

THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., August 28, 1919.

CIRCULAR No. 601-95:

In pursuance of the authority conferred upon the President of the United States by section 2 of the act approved August 18, 1914,* entitled "An Act to provide for the admission of foreign-built ships to American registry for the foreign trade, and for

other purposes," it is hereby ordered:

That the provisions of law requiring survey, inspection and measurement, by officers of the United States, of foreign-built ships admitted to United States registry under said Act are hereby suspended so tar and for such length of time as is herein provided, namely: The said provisions shall not apply to any such foreign-built ship during the period of eighteen months from September 1, 1919, provided the Secretary of Commerce is satisfied in the case of any such ship that the ship is safe and seaworthy and that proper effort is being made to comply with the said provision.

THE WHITE HOUSE, August 8, 1919.

WOODROW WILSON.

End of Contributions to the War Relief Fund.

Payroll deductions of contributions to the war relief fund of the American National Red Cross by employees of The Panama Canal and the Panama Railroad were discontinued after July 31. Contributions began July 1, 1917, when a number of employees authorized the deduction each month of one per cent of their pay, and the total contributions to the war fund, made by payroll deduction and in cash, amounted to \$136,279.46. Thanks to the community have been expressed by national and local headquarters.

Official Circulars.

Act of Congress.—Appropriations, Fiscal Year 1920, Made Available July 1, 1919.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., August 27, 1919. CIRCULAR No. 600-65:

The Act of Congress quoted below is published for the information of all concerned.

CHESTER HARDING.

Joint Resolution to ratify and confirm from and including July 1, 1919, obligations incurred pursuant to the terms of certain appropriations for the fiscal year 1920.

Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That appropriations for the service of the fiscal year 1920, contained in the Agricultural, Army, District of Columbia, Navy, and Sundry Civil Appropriations Acts, and the "Third Deficiency Appropriation Act, fiscal year, 1919," shall be available from and including July 1, 1919, for the purposes respectively provided in the said appropriations for the service of the said fiscal year. And all obligations incurred pursuant to the terms of such appropriations in the aforesaid Acts as approved are ratified and confirmed from Acts as approved are ratified and confirmed from and including July 1, 1919.

Approved, July 31, 1919.

Reimbursement for Meals.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., August 29, 1919. CIRCULAR No. 658-5:

Paragraph 8 of circular No. 658-4, dated November 24, 1916, is amended to read as follows, effective September 1, 1919:

8. Reimbursement for meals taken at a Panama 8, Reimbursement for meals taken at a ranama Canal restaurant having a la carle service only is limited to 35 cents for the morning meal, and 45 cents per meal for the noon and evening meal, or a total of \$1.20 per day. At hotels where regular meals are served, reimbursement is limited to the price of such meals.

CHESTER HARDING, Governor.

Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT, BALBOA HEIGIITS, C. Z., September 2, 1919.

CIRCULAR No. 211:

Effective September 2, 1919, Mr. W. F. Foster is designated an accountable official of The Panama Canal, vice Mr. S. W. Heald, and as such will account for all nonexpendable property in use by the Superintendent of The Panama Railroad and The Panama Canal transportation.

H. A. A. SMITH Auditor.

Approved: CHESTER HARDING. Governor.

Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT,

Balboa Heights, C. Z., September 3, 1919. CIRCULAR No. 212:

Effective as of September 2, 1919, Mr. G. S. Briggs is designated an accountable official of The Panama Canal, vice Mr. Arthur V. Dayton, and as such will account for all storehouse stock at The Panama Canal Press.

H. A. A. SMITH, Auditor.

Approved: CHESTER HARDING. Governor.

^{*}Published as circular No. 600-11. The Executive Order of August 8, 1919, above, has been published as circular No. 601-95.

THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address
The Panama Canal Record, Balboa Heights, Canal Zone, or
The Panama Canal, Washington, D. C.
Entered as second-class matter February 6, 1918, at the Post Office
at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., September 17, 1919.

No. 5.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending September 13, 1919.

		1	1	Car	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Zacapa. Lquitos. Ellerdale. Cartago. Cauca. San Juan. Saint Louis. Nortonian. Urubamba. Salvador. Atenas. William Green. Advance. Huasco. Laura C. Hall. Balboa. Santa Marta. Middlebury. Panama. Buford. Namecki.	United Fruit Company. Peruvian Steamship Line. Roval Mail Steam Packet Co United Fruit Company. Pacific Steam Navigation Co. Pacific Mail Steamship Line. Compagnie Gen. Transatlantique. Levland Line. Peruvian Steamship Line. Pacific Steam Navigation Co. United Fruit Company. Anglo-American Steamship Agency Panama Railroad Steamship Line. United Fruit Company. Anglo-American Steamship Agency Terminal Shipping Agency United Fruit Company. Panama Railroad Commissarv Panama Railroad Steamship Line. United States Government.	September 9 September 10 September 10 September 10 September 11 September 11 September 11 September 11 September 11 September 11	September 7 September 13 September 8 September 9 September 13 September 10 September 11 September 12. September 13 September 13	1,479 1,214 1,509 2,641 766 9,900 2,252 41 663 2,500 3,735	Tons. 1 822 3 3,132 3 106 1,116 1,988 1 1,053 184 (*) 1,562 3

^{*}No cargo laded.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending September 13, 1919.

				Car	go-
Name of vessel.	Line or charterer.	charterer. Arrived. Departed.		Discharged	Laded.
Kiyo Maru. Cauea. San Juan Laura C. Hall. Urubamba Salvador. Balboa.	Pacific Mail Steamship Co	September 9	September 9 September 10 September 9 September 10	7 1 1	Tons. 117

Free Entry Requests Approved in City of Panama.

In compliance with the request of the Government of Panama, in the handling of requests for the free entry of goods for employees of the United States Government on the Isthmus, copies will no longer be forwarded to the Captain of the Port of Colon for approval but three copies of approved requests will be forwarded to the Secretary of Finance and Treasury, in the city of Panama, by the Executive Secretary. To avoid delay, these will be delivered and called for by a messenger of the Police and Fire Division.

This change does not affect the procedure of employees in submitting the request (Form 164-2) in sextuplicate through the head of the department or division or the procedure of forwarding the request by the head of the department or division to the Executive Secretary; the only change is in connection with the administration in Panama.

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight, September 13, 1919.

	lama Canal	990	Net	4,321	5,220	6,232			3,273	5,597	3.801	3,789		1,023	9,698	7,775	9	2,296	, 4	
	Panama Cana		Gross	5,966	7,436	8,283	7.050	2,379	4,976	7,981		5,370		1,582	3,959	0,492	1,519	819 3,486 (b) 8,062	5,842	
	-	Tons		6,552	0,205	9,787	9.500		4,590	4,500	6,300,		:	4.07	3,738	9, 191 10, 492	12,113 11,519	8 (g)	2,327	
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		Cargo		KeroseneGeneral and oil.	General	General	Crude oil	General	General, cement	General	General	Ballast		General	Coal coke	General	Coal	Crude oil	General	
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		For		Shanghai.	Shanghai.	Auekland.	San Pedro	San Francisco.	Valparaiso.	Sydney	San Francisco	San Francisco	Manila	Guayaquil.	Carrizal	Auckland.	Balboa	Tocopilla	Valparaiso	
		From		New Orleans	ew York	New York	Tampico.	Cristobal	London	Manchester	New York	Glasgow	New York	Chstobal	Baltimore	New York	orfolk	Puerto Lobos.	New York	
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(a) Datrieship. (b) /4,000 barreis.

THROUGH THE CANAL-PACIFIC TO ATLANTIC.

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(c) Sailing. (d) For orders.

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(c) Sailing. (d) For orders. (e) Motor slip. (f) Ivory nuts, rubber, hides, eoffee. Hours are exp

Hours are expressed on the 24-hour basis and all bours greater than 12 are postmeridian.

PORT OF CRISTOBAL.

	For	New York and Limon. Grimstsy, England. London and Havre. N. Orleans, Bocas, Habana. Golombian ports. Tampico. New York via Kingston. New York.
*DEPARTURES	Line	United Fruit Company United States Shipping Board Hindustan Stamship Company United Fruit Company United Fruit Company United Fruit Company Mexican Petroleum Company Mexican Railroad Steamship Line.
	Vessels	Zacapa. Afalkey Blerdale Cartago Afensa. Afensa. Santa Marta. William Green
	Date	Sept. 7. Sept. 7. Sept. 8. Sept. 9. Sept. 9. Sept. 11. Sept. 11. Sept. 12. Sept. 12.
	From	New York and Habana. Liverpoleans. Liverpol and wayports. Havre. Tampico. Cartagena. Cartagena. Cartagena. Cartagena. New York via Haiti. New York.
"ARRIVALS	Line	United Fruit Company United Fruit Company New York and Haba Leyland Steamship Line. French Steamship Line. Havre. Ontagen Anny Panama Railroad Steamship Line. Panama Railroad Steamship Line. Cartagona. Panama Railroad Steamship Line. New York via Haiti. United States Army. New York via Haiti. United States Army. New York via Haiti.
	Vessels	Zacapa. Cartago. Cartago. Cartago. Sant Louis Sant Louis Attensa. William Green Santa Marta. Middlebury. Panama. Panama. Balford (Transport).

PORT OF BALBOA.

	Valparaiso. High seas. San Francisco.
*DEPARTORES	Sept. 8 Kiyo Maru. Toyo Kisen Kaisha
	Kiyo Maru
	Sept. 8 Sept. 9.
	Hongkong. Iquique.
*ARRIVALS	Poyo Kisen Kaisha. Hongkong. Rolph Navigation & Coal Co Iquique.
*ARRIVALS	Sept. 7. Kiyo Maru. Toyo Kisen Kaisha Hongkong. Bept. 8 Georgina Rolph (e) Rolph Navigation & Coal Co Iquique.

(e) Motor ship. *Other than ships passing through the Canal.

Prices of Various Commodities for Ships.

The Supply Department has issued the following bulletin, effective September 1, 1919, of prices to individuals and companies, on commodities listed:

Commodity.	Unit.	Price.
Brass, bar. Brass, sheet. Bronze, Tobin	Lb. Lb. Lb.	\$9.45 .62 .41
Cement, at Panama: Departments of United States Covernment (includes surcharge and bags)	Bag Bag	1.1925
Credit for empty bags returned. Individuals and companies (includes surcharge and bags) Credit for empty bags returned. Credit for empty bags returned. Cement, at Colon:	Bag Bag	1.765
Departments of United States Government, (includes surcharge and bags). Credit for empty bags returned. Individuals and companies (includes surcharge and bags) Credit for empty bags returned.	Bag Bag Bag	1.0478 .085
Linarcoal	Bag Cwt. Lb.	1.88 .25 .75
Copper, bar. Gasoline, in drum (motor grade). Lead, sheet. Lead, pig.	Gal. Lb. Lb.	41 .38 .11
Lead, pig. Lumber, yellow pine or fir (except ceiling). Lumber, ceiling, 1 by 6 Metal, yellow Nuts, iron, machine, bexagonal.	M ft. B.M. M ft. B.M. Lb.	74.00 .60
Nuts, iron, machine, square	Lb. Lb. Lb.	.20 .20
Nails, galvanized. Oakum, Navy, spun Oakum, Navy, unspun Fuel oil, at Balboa and Cristobal—in bulk:	Lb. Lb. Lb.	.08 .17 .15
United States Army and Navy, and vessels operated by same	42-gal. bbl. 42-gal. bbl.	*2.00 *2.00 *2.04
Individuals and companies from tank No. 116, Balboa. Fuel oil, at Balboa and Cristobal—in drums or barrels: United States Army and Navy and vessels operated by same. Commercial vessels and individuals and companies.	42-gal. bbl. 42-gal. bbl. 42-gal. bbl.	*2.25 *2.25
Oils, greases, and lubricants: Oil, air compressor cylinder	Gal. Gal.	.52 .37
Oil, burning, "Colza" Oil, cylinder, dark marine, "Texas" Oil, cylinder, ice machine, steam, "Garnett"	Gal. Gal. Gal.	1 08
Oil, engine, "Arctic" Oil, engine, "Cetus"—in tins Oil, engine, "Cetus"—in barrels.	Gal. Gal. Gal.	.75 .70 .63 .55
Oil, ammonia cylinder Oil, burning, "Colza". Oil, cylinder, dark marine, "Texaa". Oil, cylinder, ice machine, steam, "Garnett" Oil, engine, "Arctic". Oil, engine, "Cetus"—in tins Oil, engine, "Cetus"—in barrels. Oil, gas engine, "Texas," heavy—in drums. Oil, gas engine, "Ursa"—in barrels. Oil, gas engine, "Ursa"—in barrels. Oil, gas engine, "Ursa"—in cases. Oil, kerosene—in drums. Oil, kerosene—in drums. Oil, kerosene—in tins.	Gal. Gal. Gal.	.45 .70 .84
Oil, kerosene—in drums. Oil, kerosene—in tins. Oil, linseed, boiled. Oil, linseed, raw.	Gal. Gal. Gal.	.20 .27 1.80
Oil, Inseed, raw Oil, locomotive, engine Oil, lard.	Gal. Gal. Gal. Gal.	1.80 .26 1.40 .93
Oil, locomotive, engne. Oil, lard. Oil, marine engine, "Gargoyle". Oil, marine, dark, cylinder, "Vacuum". Oil, marine, dark, cylinder, "Vacuum". Oil, marine, engine, "Dolphin". Oil, marine, engine. Oil, "Mineral Seal". Oil, nonliquid. Oil, statinnary engine. Oil, statinnary engine. Oil, sterm	Gal. Gal. Gal.	1.08
Oil, marine, engine. Oil, "Mineral Seal". Oil. nonliquid	Gal. Gal. Lb.	.33 .55 .27 .08 .31
Oil. signal	Gal. Gal. Gal.	1.10
Öil, valve. Öil, car. Vaclite.	Gal. Gal. Lb.	.45 .18
Wax, lamp. Grease, black, gear. Grease, vellow, cup, No. 3. Grease, yellow, cup, No. 5.	Lb. Lb. Lb. Lb.	.09 .05 .10
Grease, tunnel, bearing.	Lb. Lb. Lb.	.18
Turpentine . Turpentine substitute Vasaline	Gal. Gal. Lb.	1.05 .37 .09
Paint, lead, white, dry. Paint, lead, white, in oil. Paint, zinc, white, dry	Lb. Lb. Lb.	.10 .12 .18
Paint, zinc, white, in oil. Paint, zinc, white leaded, 35 per cent in oil.	Lb. Lb.	.18

Commodity.	Unit.	Price.
Rivets	Lb.	\$0.08
Rope, Manila, ‡" diameter	Cft.	.75
Rope, Manila, W diameter.	Cft.	1 65
Rope, Manila, ½" diameter	Cft.	2.85
Rope, Manila, §" diameter.	Cft.	4 50
Rope, Manila, ‡" diameter.	Cft.	4.75
Rope, Manila, I" diameter	Cft.	6.00
Rope, Manila, 1" diameter	Cft.	7.50
Rope, Manila, 13" diameter	Cft.	10.00
Rope, Manila, 13" diameter	Cft.	13 00
Rope, Manila, 1 % diameter	Cft.	27 00
Rope, Manila, 2" diameter	Cft.	33 00
Rope, Manila, 23" diameter	Cft.	35.00
Rope, Manila, 3" diameter	Cft.	80.00
Rope, Manila, 3½'' diameter	Cft.	100.00
Steel, bar	Lb.	.05
Steel, spring		.10
Steel, cold rolled, rd	Lb	.08
Steel, sheet	Lb.	.05
Steel, structural (angles, beams, etc.)	Lb	.05
Tin, block	Lb.	.78
Tin, banca		.80
Tin, sheet.	Lb	.16
Washers, cut.		10
Waste, white and colored.	Lb.	17
Lac, boiler plate % by 6 by 12.	Lb.	110

No surcharge.

Notice to Mariners.—Lights Established, Panama Canal.

THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., September 13, 1919. CIRCULAR No. 643-65:

Lights at the Panama Canal have been established as follows:

Balboa Harbor—A light, electric, red, flashing, 1 second light, 1 second dark, on the top of shed on northern extremity Dock 4, Balboa Harbor, to mark the end of the

dock. Height of focal plane 45 feet.

Miraflores Approach, Southern end, West bank—A light, electric, white, flashing, 1 second light, 1 second dark, focal plane 8 feet, exhibited from iron standard or small wooden float, painted black, to mark the edge of the navigable channel, in 30 feet mean low water. This float is placed there temporarily, to take the place of former Beacon No. 9, until dredging operations are resumed.

CHESTER HARDING. Governor.

Refrigeration Plant Installed at Pedro Miguel Commissary.

A refrigerating plant has been installed and is now in operation at Pedro Miguel commissary. It is up-to-date cold storage equipment, furnished with refrigeration from the Pedro Miguel restaurant. Three rooms are supplied with refrigeration. Two of these are used for keeping meat, poultry, and similar commodities. The third and largest room is used for such purposes as the keeping of vegetables and the cutting of meat. The counter box has also been refrigerated, whereby a much lower temperature has been obtained than is possible through the use of ice. Improvement in the handling and keeping of supplies is consequently resulting.

Weather Conditions in August, 1919.

Rainfall during the month of August was generally deficient over the Canal Zone and vicinity. Totals ranged from 4.02 inches at Miraflores to 18.48 inches at Indio. The greatest amount of rainfall on any one day was 4.78 inches, at Porto Bello on the

The estimated average rainfall over Gatun Lake watershed was 9.42 inches, compared with a 9-year mean of 11.56 inches, and the average over the Chagres River basin above Alhajuela was 13.60 inches, compared with an 18-year mean of 14.35

Reference to a severe electric storm which occurred on the Atlantic side on August 5, during which an observation balloon at Coco Solo was burned and the mess hall struck by lightning and slightly damaged was made in THE PANAMA CANAL RECORD of August 13.

The air temperature, atmospheric pressure, wind movement, and evaporation were all slightly above normal, while the relative humidity was slightly below. The daytime cloudiness was above normal on the Atlantic coast and below on the Pacific. No fogs were observed on either coast but a number of fogs occurred over the interior,

most of which lifted or were dissipated by 9 a.m.

Gatun Lake hydrology-Mean elevation of Gatun Lake, 85.12 feet; maximum, 85.29, on the 31st; minimum, 85.00 on August 3-4-5; evaporation from Gatun Lake surface, 4.548 inches; rainfall on Gatun Lake drainage basin, 9.42 inches; total yield of Gatun Lake watershed, 4.44 inches on watershed. The total yield amounted to 47 per cent of the rainfall.

The following table gives a summary of the weather conditions during the month:

	Temperature.			1	Prec	ipitatio	n.			Win	d.				
Stations.	Pressure (reduce to mean of 24 hours).	Mean.	Maximum.	Date.	Minimum.	Date.	Mean relative humidity.	Total inches.		Days with .01 inch or more.	Total move- ment (miles).	Prevailing direction.	Max. velocity in miles.	Direction.	Date.
ren 11									—				-		
Balboa Heights	29.730	01 4	0.0	Aum A	70	A 90	05 1	5.82	7.72	22	48.84	NT 187	32	s. w.	A E
Colon	25.818	01.4	92	Aug. 4	72 73	Aug. 20	85.1 85.2	6 77	14 83	22	68.23	W.	92	S. W.	Aug. 5
Gamboa		81.2	07	Aug. 24	72	Aug. 21	1 1	7.37	11.77	26	34.42		28 25	S.	Aug. 21
Gatun		80.3	92	Ang 17* Aug. 24	72	Aug. 13 Aug. 20		9.07	13.99	23	43.58		23	E.	Aug. 5
Cratum		ou o	091	Aug. 24	12	Aug. 20	1	9.07	10.99	40	45.00	14.	20	Li.	Aug. 5

^{*} And other dates.

Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad The estates of the following deceased employees of The Fanama Canal of the Fanama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of-	Isthmian residence.	Employed by-	Date of death.
Charles Dear Clarence Delvalle Andreas Quintana Frederick A. White	26935	Rep. of Panama. Panama	Colon	Health Department Mechanical Division. Supply Department Police and Fire Div	August 24, 1919. August 23, 1919.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal postoffices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights, (telephone 286):

Welfare worker (female); \$1,200 to \$1,600 a year; October 8, 1919; form 1312; age, more than 25

Radio clerk (male); \$1,000 a year; October 8, 1919; form 1312, age, more than 18 years. Senior highway engineer (male); \$2,200 to \$4,000 a year; October 21, 1919; form 1312; age, not 50 years.*
Field superintendent in insect control (male); \$1,800 to \$2,400 a year; No. 453; October 4, 1919; form 2118; age, 25 years but not 50 years.*

Laboratory assistant (male); \$1,600 a year; No. 198-amended, supplemental; September 17-18, 2919; form 1312.

Expert radio aid (male); Grade 1, \$7.04 per diem; Grade 2, \$10 per diem; Grade 3, \$12 per diem; No. 435; October 7, 1919; form 2118; age, within reasonable age limits.

Claims examiner (male); \$1,800 a year; No. 437; October 8, 1919; form 1312; age, 21 years but

not 50 years. Technical expert (male); \$1,800 a year; No. 446; October 14, 1919; form 1312; age, not less than 20 years.*

20 years, **
Physicist, qualified in optics (male); \$3,600 to \$4,000 a year; No. 445; October 14, 1919; form 1312; age, within reasonable age limits.*
File clerk (male and female); \$1,000 to \$1,200 a year; No. 77-amended; September 17, October 22, November 19, and December 10, 1919; form 1312; age, not under 18 years.
Trained nurse (male and female) (Panama Canal service); \$95 a month (female); \$100 a month (male); No. 269-amended; October 22, 1919, December 10, 1919; form 1312; age, males 20 to 40 years, females 20 to 35 years.
Clerk (Bureau of the Census) (male and female); \$900 to \$1,020 a year; October 18, 1919; form 304; age, 18 years but not 50 years.

age, 18 years but not 50 years.

^{*}Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

Local Civil Service Examinations.

The following examinations will be held at Balboa Heights, C. Z., on the dates set opposite the titles thereof:

Clerk, September 21, 1919.

Postal Clerk, September 28, 1919.

Stenographer and Typist, September 28, 1919.

Full information in regard to the scope and the character of the examinations is contained in pamphlet form 1424. Information for Applicants for Stenographer and Typewriter Examination, a copy of which may be obtained from the Secretary of the Civil Service Board, Administration Building, Balboa Heights, C. Z. Applicants for the Clerk examination must take at least one optional subject in addition to the regular basis subjects. The optional subjects are: First, typewriting; second, bookkeeping; third, general business training and experience; fourth, timekeeping training and experience. If the third optional is taken, three letters of recommendation from former employers should accompany the application. the application.

Applicants for the examination for Postal Clerk must show that they have had at least one year's experience as clerk in the United States or Canal Zone postoffices or as postmaster or as Navy mail clerk, and that they are familiar with the receipt, distribution and dispatch of mail matter, the issuance

clerk, and that they are familiar with the receipt, distribution and dispatch of mail matter, the issuance of money orders, registration of mail, and the preparation of various reports required of postmasters. Application form No. 1312 must be filled out, including the medicial certificate but excluding the county officers' certificate, and should be filed promptly with the Board of Civil Service Examiners at Balboa Heights, C. Z.

Applicants must have reached their 20th but not their 45th birthday on the date of the examination, must be citizens of the United States, physically sound and in good health.

Applicants must submit to the examiner on the day of the examination their photographs taken within 2 years, securely pasted in the place provided in the admission cards sent them after their applications.

2 years, securely pasted in the place provided in the admission cards sent them after their applications are filed.

Applicants for the Clerk examination in answer to question 1 and on the outside of the form should state the optional subject taken in addition to the name of the examination required.

In answer to question No. 4, applicant must show residence in some State or Territory of the United States from the time of taking up residence therein to September, 1919, on account of temporary employment on the Canal Zone and their retention of legal residence in the United States. The same must be appropriate the carried the same must be appropriated to the carried the same must be appropriated to the same must be appropriated.

shown as to the county.

This examination is scheduled on the dates shown especially to provide for the examination of soldiers, sailors, marines, field clerks, and enlisted army and navy nurses who were unable to compete after April 6, 1917, and who are allowed 60 days from August 1, 1919, to do so, if they have been discharged prior to that date. Those discharged later will be allowed 60 days after discharge to compete; but, owing to our distance from the United States and the delay in receiving questions, all such persons that the date when the date which we have the date of the date o should compete if possible on the date above mentioned.

These examinations will also be open to any other applicants desiring to be examined for The Panama

Canal Service.

Tourist Cruises.

A series of 11 cruises to the Isthmus, each to contain from 120 to 140 persons, has been scheduled for the coming dry season by the United Fruit Company, the American Express Company, Thomas Cook & Son, and the Raymond & Whitcomb Company. The first party is scheduled to arrive at Cristobal about January 11, and the others will follow at weekly intervals.

Bureau of Clubs and Playgrounds Operating Boat Club.

The operation of the Yacht Club at Balboa passed from private control to the management of the Bureau of Clubs and Playgrounds on September 10, on request of a majority of the members, and it will hereafter be operated along the lines of the other Canal clubhouses. Locker space will be rented and boats cared for at the rate of \$3 per month, as before, and in other respects the house will be open to all gold employees. The name has been changed from Yacht Club to Boat Club. An effort will be made to stimulate its use, especially in connection with swimming at Farfan beach, on the west side of the Canal, opposite the clubhouse.

Information concerning use of the property for private parties and dances may be obtained from the matron at the Boat Club (telephone 778, Balboa), the secretary of the clubhouse at Balboa (telephone 800),

or the General Secretary at Balboa Heights (telephone 200).

Postal and Cable Addresses of The Panama Canal.

The postal address is. "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama"; in the United States, "Pancanal, Washington."

Joint Commission.

Decision of the Umpire.

In the matter of the claim of B. Burns Duncan for the Quebrada de Oro Plan-tation and Mining Company, located in the District of Empire, Canal Zone. Amount claimed: \$100,000.

Decision of the Umpire, judgment No.

427, docket No. 3003, August 30, 1919.

The hearing of the above-entitled claim commenced before the Joint Commission on December 2, 1918, and was concluded on December 10, 1918. The claimant, in reviewing the vicissitudes which the Quebrada de Oro mine, subject of this claim, had encountered, stated that it had been worked prior to the year 1882 by an American company from Philadelphia. Shortly after beginning operations this company was forced to abandon the project on account of the death of the representatives of the company and of the son of the president, caused by an epidemic of yellow fever which developed at that time. Only a guard remained at the mine on account of the panic which was created by this epidemic.

After some time had elapsed an engineer was sent from the United States to continue the exploitation of the mine but this time operations were suspended on account of the "periodical revolution." The guard, believing that the mine had been completely abandoned, proceeded to sell the machinery belonging to the collapsed enterprise in order to collect his

salary which was due.

A number of employees of the French Canal Company then organized a new company to work the abandoned mine, the present claimant being a member thereof. Another engineer was sent for, but soon after his arrival he was unfortunately killed in a fight, and as a consequence the work of the Quebrada de Oro mine was again paralyzed. The discouraged stockholders decided to dissolve the company, and in the year 1889 the claimant requested from the Government of Colombia the right to exploit the mine. Having obtained permission he organized a company under the name of Colombian Gold Mining Company."

The claimant explained to the satisfaction of the Commission the reason the documents were not in his name, the reason he was using an assumed name, and why it was that his wife, and not himself, acquired rights from the Government El Arbitro de la Comisión Mixta Estados Unidos de América—República de Panamá, Panamá.

Reclamación de B. Burns Duncan en representación de "The Quebrada de Oro Plantation and Mining Co." enclavada en el Distrito de Emperador, Zona del Canal. Cantidad reclamada: \$100,000.

Decisión del Arbitro, regla No. 427, expediente No. 3003, 30 de Agosto de 1919.

En la audiencia de esta reclamación celebrada ante la Comisión Mixta del 2 al 10 de Diciembre de 1918, el reclamante haciendo la historia de las vicisitudes por que había pasado la mina denominada Quebrada de Oro, objeto de la presente reclamación, manifestó que hal·ïa sido trabajada con anterioridad al año 1882, por una compañía americana de Philadelphia, que hubo de abandonarla a poco de comenzar los trabajos, a causa de la epidemia de fiebre amarilla que se desarrolló por entonces, y de la que fue-ron víctima los representantes de la Compañía, con el hijo de su Presidente. Tal fue el pánico que este creó que solo un guarda quedó al frente de la mina.

Transcurrido algún tiempo, enviaron de los Estados Unidos un ingeniero para recomenzar las obras, pero esta vez fue la "revolución periódica" la causa de su paralización.

El guarda de la mina la consider6 completamente abandonada, y procedió a la venta de las herramientas pertenecientes a la fracasada empresa, con objeto de cobrarse los salarios que se le adeuda-

Entre varios empleados de la Compañía del Canal francés, se organizó otra nueva, para reanudar los trabajos de la mina abandonada, de cuya Compañía formó parte el actual reclamante.

Se envió a buscar a los Estados Unidos otro ingeniero, y llegó, pero con tan mala fortuna, que a poco lo mataron en una reyerta, quedando nuevamente paralizada la explotación de la mina Quebrada de Oro.

Desanimados los accionistas, decidieron disolver la Compañía, y entonces el reclamante (año 1889) solicitó Gobierno de Colombia el derecho de explotación de la misma, y una vez obtenido, organizó una Compañía con el titulo de "The Colombian Gold Mining Company."

El reclamante manifestó a satisfacción de la Comisión Mixta por qué causas los documentos estàn expedidos a nombre que no es el suyo, por qué pasaba a la sazón con nombre supuesto, y por qué fue su esposa, y no él, quien intervinó en la

of Colombia and organized the abovementioned company.

Operations were again begun with great expectations because they were working an open vein which had evidently been discovered by the assassinated engineer, but a little more than 3 months later this vein was exhausted, and it has not been found again in spite of the fact that 27 years have elapsed since that time. The claimant, however, is of the opinion that the vein has not been lost. He believes that it has simply sunk as a result of the earthquakes which are prevalent in these Central American countries, and that by excavating to a greater depth the valuable gold vein can again be located. At all events, the stockholders were not of the same opinion for they decided to suspend operations of the mine and to engage in agricultural pursuits. In view of this intention the new name of "The Quebrada de Oro Plantation and Mining Company" was given to the company, and its representative claims from the Government of the United States the sum of \$100,000 on account of the expropriation of the land where these two ventures might have been carried on.

The claimant stated that in May, 1918, a few months before this claim was heard before the Joint Commission, he engaged Mr. Alex Gair Davidson, Bachelor of Science of the University of Dunedin, New Zealand, and resident of Panama since January, 1917, to write a report from a mining standpoint, on the commercial value of the land subject of this claim.

According to the report of Mr. Davidson the mineral zone of the land is divided into two sections—the "Quebrada de Oro" and the "Rio Sardinilla." The map which accompanies the report marks the exact location of these sections.

He stated that the principal part of the work which was done in the mine was accomplished in the time of the Spaniards, and by the company which exploited it prior to the year 1882. He further stated that in making his examination of the ground he discovered a number of goldbearing veins; that the possibility of obtaining water in sufficient quantities to work the mine at all times, including the dry season, would greatly facilitate its operation, and that in his opinion it would be a paying proposition. He presented seventy-four samples taken from dif-

adquisición de los derechos de parte del Gobierno de Colombia y en la formación de la Compañía de referencia.

Al organizarse ésta, recibió cinco mil dollars (\$5,000) en efectivo, más el 50 per cent en los intereses de la empresa.

Entonces se trabajó la mina con grandes esperanzas, porque se explotaba un filón descubierto, según parece, por el ingeniero asesinado, pero poco después de tres meses se agotó el filón, y no se ha vuelto a dar con él a pesar de los 27 años trascurridos desda entonces.

El reclamante, no obstante, es de opinión que el filón no se ha agotado: piensa que a causa de los movimientos sísmicos peculiares a estas tierras centro americanas, el filón se ha hundido simplemente, y es solo cuestión de ahondar algo más, para dar con la valiosa vena de

De todas suertes, los accionistas no debieron participar de la misma opinión, al desistir en su propósito de explotar la mina, y pensar dedicarse a la agricultura, para lo cual solicitaron un préstamo en los Estados Unidos, préstamo que no materializó.

Por este doble aspecto de las empresas a que debía haberse dedicado la "Compañía Agricola-minera Quebrada de Oro," es por lo que se le dió nuevo título, y su representante reclama del Gobierno de los Estados Unidos la suma de \$100,000 por la expropiación del terreno donde aquellas pudieron haber existido.

El reclamante manifestó que en Mayo de 1918, pocos meses antes de verse la reclamación ante la Comisión Mixta, encomendó a Mr. Alex Gair Davidson, Bachiller en Ciencias por la Universidad de Dunedín, Nueva Zelandia, y residente en Panamá desde Enero de 1917, la redacción de una Memoria a fin de determinar el valor comercial del terreno objeto de esta reclamación, en concepto de propiedad minera.

Según la opinión de Mr. Davidson la zona minera de este terreno comprende dos secciones: la parte de la Quebrada de Oro, y la del Río Sardinilla. En el mapa que acompaña a la Memoria, se localiza la posición precisa de dichas secciones.

Con respecto a la importancia de los trabajos realizados en la mina, considera que los principales fueron los llevados a cabo en tiempo de los españoles, y después, los que realizó la compañía que la explotó con anterioridad al año 1882. Manifiesta que en los exámenes sobre el terreno ha descubiertos varias vetas auríferas; que la posibilidad de obtener agua para los trabajos en cantidad suficiente, en toda época, incluso en la temporada de secas, aconseja la explotación de la mina; y es de opinión que sus trabajos serían de resultados comerciales.

ferent sections of the land the analysis of which shows a percentage of gold up to \$8 per cubic yard. He explained in technical detail the commercial value of the mine; the work necessary to be done in order to exploit it; the most favorable season to do the work; and after calculating the expenses and the production the following figures resulted:

There was introduced on behalf of the Government of the United States the testimony of the expert, Mr. Donald F. McDonald, who previously belonged to the Geological Survey in Washington, but who was an employee of The Panama Canal at the time he testified. He stated that he had made two inspections of the land; that he had taken samples and that he had had analyses made of these samples. The samples selected during the first inspection were sent to the Treasury Department of the United States for examination by the Mint. The assays showed a percentage of gold from \$0.35 to \$5 per cubic yard, and from \$0.20 to \$6.80 per ton.

This expert stated in his testimony in answer to questions of counsel for the claimant that "The claim must be considered mineral land; that it is a good place for the prospector to work, and that it would not be impossible for him to find gold in paying quantities."

(Page 114, Transcript.)

The first inspection covered almost exclusively the "Quebrada de Oro" section; the second included both sections. Stone and gravel were selected from both sections to be assayed. The samples selected during this second inspection were sent by the authorities of the Canal Zone to a different office from the first to be assayed. The figures of the second analysis differ widely from the first ranging from zero to \$1 per ton.

The expert who testified on behalf of the claimant stated that he had studied on the ground from May 2d to October 15th, 1918. (Page 5, Transcript.) Counsel for the claimant called the Commission's attention to the fact that the expert who testified on behalf of the Government of the United States, in making his examinations had followed the course of the Quebrada for more than a mile; had made the study necessary

Presenta 74 muestras tomadas de las diversas secciones del terreno, cuyo análisis demuestra una existencia de oro

hasta \$8 por yarda cúbica.

Entra en detalles técnicos con respecto al valor comercial de la mina; acerca de la clase de trabajos que deben emprenderse para su explotación; época más favorable para realizarlos; y después de calcular los gastos, compara estos con la producción, dando las siguientes cifras: Gastos de explotación du-

rante un quinquenio... \$156,000.00 Producto durante el mis-

mo tiempo......\$289,000.00
Beneficio liquido en un quinquenio.....\$133,000.00

El Gobierno de los Estados Unidos, por su parte, presenta al perito Mr. Donald F. MacDonald, que anteriormente pertenecía a la Oficina de Geología de Washington, y al momento de servir de testigo era empleado de la Zona del Canal.

Manifesta verificó dos inspecciones sobre el terreno, y de las muestras se hicieron los análisis correspondientes.

Remitidas las muestras de la primera inspección de orden del Departamente del Tesoro de los Estados Unidos, de Washington, al negociado de la Casa de Moneda, su análisis arroja una existencia de oro en proporciones entre \$0.35 y \$5.00 por yarda cúbica, y \$0.20 y \$6.80 por tonelada.

Dicho perito manifestó en su declaración, contestando a preguntas del abogado del reclamante, "que la reclamación debe ser considerada como de tierra mineral; que es un lugar a propósito para que un explotador haga en él trabajos; y que no sería imposible que estos llegaran a ser remunerados." (Pag. 114 del Tetsimonio).

La primera inspección cubrió casi sola-

La primera inspección cubrió casi solamente la parte de la Quebrada de Oro; la segunda, abarcó las dos secciones. En ambas se tomaron piedra y arena, para

los análisis.

Las muestras de esta segunda inspección fueron remitidas por las autoridades de la Zona del Canal, para su análisis, a distinta oficina que las primeras. Las cifras de este segundo análisis, distan mucho de las del primero, oscilando entre cero y \$1 por tonelada.

El perito por parte del reclamante participa estuvo haciendo estuidos sobre el terreno, desde el 2 de Mayo al 15 de Octubre de 1918. (Pag. 5 del Testimonio.)

El abogado del reclamante llama la atención de la Comisión Mixta acerca del hecho de que el perito del Gobierno de los Estados Unidos, para el examen del terreno ha tenido que seguir el curso de la quebrada durante más de una milla; hacer los estudios necesarios para dividir-

to divide the mine into two sections; had taken 198 samples of gravel and 44 of rock, and that he had accomplished all of this work in 110 hours. (Page 101, Transcript.)

Counsel for the claimant estimated that about \$15,000 had been spent by the "Quebrada de Oro Plantation and Mining Company" in working the mine.

H.

The Members of the Joint Commission have been unable to reach an agreement either as to the rights of the claimant or as to the amount of compensation.

The Panamanian Members believe that the claimant in obtaining the con-cession fulfilled all the requirements of the Colombian law in force at the time and they are of the opinion that the claim is legally justified, but when they proceed to value the damages sustained by the claimant as a result of the expropriation of this concession, they timate the damages in the sum of \$15,000.

The American Commissioners deny that the claimant has any right to make a claim against the United States, and they base their opinion on the fact that by Article XXI of the Treaty the Republic of Panama granted to the United States all public lands without encumbrance whatever, and they are of the opinion that inasmuch as under the mining laws of Colombia the State or Department retained ownership of the mines, granting to claimant only exploitation privileges, when Panama made that cession to the United States, it made impossible any such claim against the latter, and the claimant, therefore, only has recourse against the Republic of Panama.

III.

The fact remains that the claimant did not succeed in operating the mine in question in a manner which would render it possible to capitalize the returns, and to correctly judge the amount of damages sustained on account of its

expropriation.

The claim has two aspects: technical, with regard to the intrinsic value of the mine, and the other economical, with regard to its commercial value. From the evidence adduced the undersigned Unipire has been unable to appraise either the intrinsic value or the commercial value of the mine. The reports of the experts have impressed him more as a business proposition than as an estimate. Therefore, whether or not the mine was worked, until the results obtainable are known, the value will remain a mystery, and to appraise it will be impossible.

lo en secciones; tomar 198 muestras de arena y 44 de roca; y que para todo ello empleó solamente 110 horas (Pag. 101, del Testimonio).

El obogado del reclamante aprecia en unos \$15,000 el importe de los gastos realizados en sus trabajos por la Que-brada de Oro Plantation and Mining Company.

П.

Los miembros de la Comisión Mixta no han logrado ponerse de acuerdo ni sobre el derecho del reclamante ni sobre

el importe de la remuneración.

Mientras que los miembros por parte Panamá, fundándose en que el reclamante, para obtener las concesiones por cuya expropiación reclama, ha cumplido con los requisitos exigidos por la ley colombiana vigente a la sazón, son de opinión de que le asisten todos los derechos para reclamar; al proceder al avalúo de los perjuicios esperimentados por este como consecuencia de la expropiación referida, los estiman en \$15,000.

Los comisionados por parte de los Estados Unidos, niegan que asista al reclamente derecho alguno contra el Gobierno de los Estados Unidos, y se fundan en que por el Artículo XXI del Tratado del Canal, la República de Panamá cedió al Cobierno de los Estados Unidos, y se fundan en que por el Artículo XXI del Panamá cedió al Cobierno de los Estados Unidos. Panamá cedió al Gobierno de los Estados Unidos todos los terrenos públicos sin gravamen alguno, y como por las leyes de minas Colombianas el Estado o el Departamento conservaban el derecho de propiedad sobre las minas, concediendo solo el de explotación, al hacer Pana-má aquella cesión a los Estados Unidos anuló toda posible reclamación contra éstos, y al reclamante solo le queda hacerlo contra la República de Panamá.

El hecho es que el reclamante no logró explotar la mina en cuestión de modo que sea posible capitalizar sus rendimientos y poder juzgar a punto cierto la monta de los perjuicios experimentados a causa de su expropiación.

Esta reclamación tiene dos aspectos: uno técnico, relacionado con el valor real de la mina; y otro económico, relacionado con el valor comercial de la misma.

Por las pruebas aducidas, el Arbitro que subscribe, no ha logrado poder llegar a materializar ni el valor real, ni el valor economico, o commercial de la mina. Los informes periciales le han impresionado más como un proyecto de negocio que como un avalúo. Por aquel se podra pensar en emprenderlo o no, pero mientras se desconozcan sus resultados, el valor continuara siendo una incógnita, y el avalúo se hace imposible.

The figure of \$15,000, suggested by the Panamanian Members, in compensation for a gold mine seems a small amount. And, on the other hand, to ask the United States to pay the sum of \$15,000 which is the amount counsel for the claimant stated had been spent in working the mine, does not seem just. If the business venture was a failure the United States Government should not be held responsible for it.

Therefore, and without prejudice to any claim which the claimant may make before a competent tribunal the undersigned Umpire considers that on account of lack of evidence which would prove the true intrinsic and commercial value of the claim of the "Quebrada de Oro Plantation and Mining Company," he should refrain, and he does hereby refrain from announcing a decision in this case.

Done in the National Palace, Panama, August 30, 1919.

Manuel Walls y Merino, Umpire. Aceptar la cifra de \$15,000 sugerida por los miembros panameños, para recompensar la expropiación de una mina de oro, le parece poca recompensa. Y, por otra parte, hacer pagar al Gobierno de los Estados Unidos la suma de \$15,000 que coincide con lo que el abogado del reclamante manifestó habia aquel gastado en los trabajos de la mina, no le parece justo. Si el negocio no salió bien, no debe hacerse responsable de ello al Gobierno de los Estados Unidos.

En su consecuencia, y sin prejuzgar el mejor derecho que el reclamante pueda alegar ante Tribunal competente, el Arbitro que subscribe considera que por falta de elementos que le permitan conocer el verdadero valor técnico y comercial relacionado con la reclamación de la Quebrada de Oro Plantation and Mining Company debe inhibirse y se inhibe de pronunciar fallo acerca de la misma.

Dado en español y en inglés en e Palacio Nacional de Panamá a los 30 días del mes de Agosto de 1919.

MANUEL WALLS Y MERINO,
Arbitro.

Reoccupying Family Quarters after Leave.

Attention of employees to whom family quarters are assigned is called to that part of paragraph 19 of circular No. 674-24 which reads, "Employees will be required to notify the District Quartermaster at expiration of leave period, and on date they reoccupy quarters, of the total time absent during that period. (Hospital treatment excepted.)" This applies to absences of 10 days or more.

This report may be made orally or in writing. The simple statement, "I have reoccupied my quarters in House No..." is sufficient.

Official Circulars.

Acting Superintendent, Acting Master of Transportation, Panama Railroad.

PANAMA RAILROAD COMPANY,
OFFICE OF PRESIDENT,
BALBOA HEIGHTS, C. Z., September 2, 1919.
HEADS OF DEPARTMENTS AND DIVISIONS:

Effective this date, and during the absence on leave of Mr. S. W. Heald, Mr. W. F. Foster will set as Superintendent of the Panama Railroad, and Mr. W. J. Bissell will act as Master of Transportation.

CHESTER HARDING, President.

Watch Inspection.

PANAMA RAILROAD COMPANY,
OFFICE OF MASTER OF TRANSPORTATION,
BALBOA HEIGHTS, C. Z., September 10, 1919.
CIRCULAR NO. 1361:

To conductors, engineers, yardmaster, motor cor operators—The records kept by the official watch inspectors at Panama and Colon show that a number of our conductors and engineers are not complying with Circular No. 1247, issued April 24, 1919, relative to the semi-monthly watch inspection, and through failure to do so makes it necessary to again call your attention to the importance of having your watch inspected as required by the rules.

It seems to have been the practice of some of our conductors and engineers to call at the watch inspector, compare time with the clock therein, make some remark relative to the exactness of their watch, walk out and take it for granted that they had fulfilled all the requirements necessary in having their watch inspected.

in having their watch inspected.

Flease be advised that when calling at the official watch inspector for the purpose of having your watch inspected, as per rule, it will be necessary for conductors and engineers to hand their watch to the official watch inspector or his representative for inspection, otherwise your call at his office will not be considered official, and no record will be made of same. Should there be the faintest shadow of a doubt in your mind at any time as to the person who inspects your watch having authority to do so, you will submit written report to this office and the matter will be taken up with the proper authorities.

Open hours of the inspector's office at—Colon: 7.30 a. m. to 7.30 p. m., daily except Sundays and holidays.

Panama: 8 a. m. to 6 p. m. daily except Saturdays, Sundays, and holidays. 8 a. m. to 9 p. m. Saturdays only.

W. J. Bissell, Acting Manager of Transportation.

Approved:
W. F. Foster,
Acting Superintendent.

Opening of Public Schools.

THE PANAMA CANAL. EXECUTIVE DEPARTMENT, DIVISION OF SCHOOLS,

BALBOA HEIGHTS, C. Z., September 9, 1919.

To all concerned—The public schools of the Canal Zone will open on Wednesday, October 1, 1919.

All children residing in the Canal Zone, whether of employees or non-employees, and children of American employees of The Panama Canal, Panama Railroad, United States Army and Navy, and other departments of the United States Government residing in Panama or Colon are entitled to free school privileges. The children of employees not living in the Canal Zone and not citizens of the United States are not entitled to Canal Zone school privileges. No child will be admitted, however, who will not be six (6) years old on or before February 1, 1920.

Schools for white children will be opened at the

Schools for white children will be opened at the

following places:

Balboa. Grades 1 to 12, inclusive
Ancon. Grades 1 to 8, inculsive
Pedro Miguel Grades 1 to 8, inclusive
Gatun. Grades 1 to 8, inclusive
Cristobal (Colon Beach) Grades 1 to 12, inclusive

The dividing line between the Ancon and Balboa school districts commences at the old nurses boa school districts commences at the old nurses' quarters and extends to the railroad tracks, passing between houses Nos. 592 and 593-X. Grade pupils wno live in houses No. 36, 47, 569, 570, 571, 572, 574, and 592, and on the Ancon side of these houses, will attend the Ancon school; those who live in houses Nos. 201, 202, 576, 593 to 604, including 593-X, and on the Balboa side of these houses, will attend the Balboa school.

Pupils who live in Corozal will attend the Balboa school.

Pupils who live in Paraiso and on the west side of the Canal will attend the Pedro Miguel school.

Grade pupils who live between Gatun and New Culebra will attend the Gatun school. Pupils living in Cristobal will take the train to the Washington Hotel leaving the commissary at 8.36 a. m., and return on the train leaving the Washington Hotel at 3.30 p. m.

Pupils in all schools remaining at school during the noon hour will be under the supervision of a

White schools will open and close according to

A. M.	P. M.
Balboa High 8.00—11.15	12.45-3.30
Balboa Elementary, 8.00—11.30	1.00-2.30
Ancon 8.00—11.30	1.00-2.30
Pedro Miguel 8.00—11.30	1.00-2.30
Gatun 8.00—11.30	1.00-2.30
Cristobal Elementary 9.00—12.00	1.00-3.00
Cristobal High 9.00—12.00	1.00-4.00
Wherever practicable, the first	grade in all
white schools will dismiss 30 mir	

white schools will dismiss 30 minutes earlier than the other grades, and the second grade 15 minutes earlier, both morning and afternoon.

Schools for colored children will open at La Boca, Pedro Mizuel, Paraiso, Empire, Gatun, and Cristobal. The sessions will be from 8 to 11 a. m. and from 1 to 3 p. m.

These box ask with a pracupicient of such changes

The above schedules are subject to such changes

The above schedules are subject to such changes as conditions may warrant.

1. Requests should be made to this office immediately for necessary railroad transportation.

1. Parents of pupils attending the Canal Zone schools for the first time should prepare the following information and give the slip of paper containing the same to the pupils to hand to the teachers on the first day of school: Pupil's name; place and date of birth; date of arrival on the Isthmus; city, or town, and State in which pupil attended school, if pupil has previously attended school; and name, check number, occupation, and address of parent or guardian. Pupils who have attended school in the States should, if possible, submit their report cards from such schools. submit their report cards from such schools.

A. R. LANG Superintendent of Schools. Approved: C. A. MCILVAINE, Executive Secretary.

Acting Shop Accountant, Mechanical Division.

THE PANAMA CANAL, MECHANICAL DIVISION.

Balboa, C. Z., September 13, 1919. To all concerned—Mr. A. B. Caruthers Ia appointed acting shop accountant, Mechanical Division, effective September 13, 1919, vice Mr. J. F. Everett, on leave.

E. G. Kintner, Superintendent, Mechanical Division.

Employees with Switch Keys.

PANAMA RAILROAD COMPANY, Office of Master of Transportation, Balboa Heights, C. Z., September 8, 1919, CIRCULAR No. 1358:

To all concerned-Please furnish this office as To all concerned—Please turnish this office as soon as possible with a list of all employees, with check number, under your jurisdiction who have in their possession a switch key.

W. J. BISSELL,

Acting Master of Transportation.

Cable Notice.

PANAMA RAILROAD COMPANY,

Office of Master of Transportation, Balboa Heights, C. Z., September 11, 1919. To agents and operators—The following informa-

To agents and operators—I net following informa-tion has been received from the Central and South American Telegraph and Cable Company: "Communication with Costa Rica restored; accept at sender's risk."
"Teguciealpa, Honduras, reports all traffic on hand for Honduras since the first at main office; unable forward or deliver owing revolution. Useless accepting traffic for Honduras. No means of delivery.

W. J. BISSELL, Acting Master of Transportation.

Christmas Candies in Pails.

THE PANAMA CANAL, SUPPLY DEPARTMENT. CRISTOBAL, C. Z., September 6, 1919.

MEMORANDUM No. 871:

To all concerned—We have received a few requests for mixed candies in pails for Christmas. In order that our requisition may be placed in sufficient time to insure the arrival of these candies before Christmas, I would thank you to advise your estimated requirements for this year.

J. J. JACKSON, General Manager, Commissary Division.

Misdirected Letters.

The following insufficiently addressed mail has been received in the office of the Director of Posts, and may be obtained upon request of the addresse. Request may be made by telephone, addressee. calling No. 182, Balboa.

Allpass, T. F. Avett, Mrs. Nora Blumberg, Charles Brown, Arthur Crossman, Alfred H. Dougherty, Charles F. Fellstrom, Arthur Howard, Lawrence C. Narronga, R. T.

Roberts, Daniel Salmon, Richard Homer Smith, Mrs. F. M. Swanson, Oscar Watson, W. C. Welten, Theo. Yale, Chas. E. BALBOA HEIGHTS, C. Z., September 15, 1919.

Barry, Mrs. Max Barry, Mrs. Max Caicedo, Sra. Dolores Combs, Master Walter V., Jr. Crowford, Mrs. R. S. Bberling, Alexander Head, C. V.

Hall, Fitz A.* Riely, Eugene R Salaman, Alejaindre Shoberg, Charles Thorne, Capt. E. A.? Yale, Charles E.

Neimarr, T. C. Noben, William H.

^{*}Special delivery. † Parcel.

List of the Diplomatic and Consular Corps' Accredited to the Republic of Panama.

September 15, 1919.

ARGENTINA Panama

Bruno Cittadini, Consul General. Rafael Gutieri, Acting Consul General.

> BELGIUM. Guatemala.

Alberto Moulaert (resides in Guatemala), Acting Charge d'Affaires. . Panama.

B. D. Fidanque, Consul.

Colon. J. J. Henriquez, Vice-Consul.

> BOLIVIA. Panama.

Samuel Boyd, Consul General.

Isidoro Hazera, Consul.

BRAZIL. Habana, Cuba. Luis Guinaraes, Charge d'Affaires.

José Fonseca Filho, Vice-Consul.

Jorge Domingo Arias, Consular Agent. CHILE.

San Jose, Costa Rica, Julio Garces, Envoy Extraordinary and Minister Plentipotentiary.

Panama.

Francisco Echaurren Orrego, Charge d'Affaires. ad interim and Consul General.

Ramon Arias F., Jr., Consular Agent.

CHINA. Panama.

Woo Pei Kuang, Consul General. C. N. Chau, Vice-Consul.

COSTA RICA. Panama,

Humberto Vaglio, Consul General. Colon.

Daniel Rojas P., Consul.

Bocas del Toro. Juan Rafael Mora Escalante, Consul.

CUBA.

Panama.

Carlos A. Vasseur y Poo. Minister Resident.
Jose F. Baron, Secretary of Legation. Antonio Mesa Plasencia, Secretary of Legation. Colon.

José Dominguez Romay, Consul. DENMARK.

Panama.

J. L. Maduro, Consul. Colon.

J. V. Beverhoudt, Vice-Consul.

ECUADOR. Panama.

Modesto Rivadeneyra, Consul.

FRANCE. Panama.

J. P. E. Bizel, Charge d'Affaires. Maurice de Simonin, Charge d'Affaires, ad interim.

Colon.
Gustave de Laigue (resides in Panama City), Chancellor. (Attache. M. Marcel, Vice-Consul. (Attache.)

David.

Eugene Loeffler, Vice-Consul.

GREAT BRITAIN. Panama.

Andrew Percy Bennett, Envoy Extraordinary and Minister Plentipotentiary. Charles F. Madeley, Vice-Consul. E. S. Humber, Proconsul.

Colon. J. R. Murray, Consul. George Goodall, Vice-Consul. Frederick Woodcock, Proconsul. Bocas del Toro. William H. Ponton, Consul.

David. William C. Kincaid, Consular Agent.

GREECE. Panama

Florencio Arosemena Ycaza, Consul.

GUATEMALA.
Panama.

J. F. Arango, Consul General. Colon.

Vicente Delgado, Consul.

HAITI. Colon.

Hilario V. Seixas, Consul General.

HOLLAND. Panama.

David M. Sasso, Consul General. Colon.

J. J. Ecker, Consul.

HONDURAS. Panama.

Marcos E. Velasquez, Consul General.

ITALV. Panama.

Carlo Raguzzi, Charge d'Affaires and Consul.

Colon. Miguel Papio, Consular Agent.

JAPAN. Panama.

Tadanao Imai, Vice-Consul. MEXICO.

Panama,

Vicente Rendón Quijano, Consul. Baldomero Méndez, Vice-Consul. Colon.

Inocencio Galindo, Vice-Consul.

THE NETHERLANDS. See HOLLAND.

NICARAGUA. Panama. Marcos E. Velasquez, Charge d'Affaires.
Bocas del Toro.

Salomon H. Conoan, Consul.

NORWAY.

Mexico City.

Michael Strom Lie, Consul General.

Panama.

C. D. Corinaldi, Vice-Consul.

Colom.

Oswald Montagn Grimsey, Consul. Nicolas Bergh, Vice-Consul.

PARAGUAY. Panama.

Juan Brin, Consul General. PERU.

Panama.

Oscar Barrenechea y Raygada, Charge d'**Affaires**. Alberto B. de Obarrio, Consular Agent. Colon

Enrique Vallarino, Consul.

PORTUGAL.

Caracas.
Fernao Botto Machado, Envoy Extraordinary and Minister Plenipotentiary. Colon.

Ruben S. Arcia, Consul.

Ofilio Hazera, (resides in Panama), Vice-Consul. Bocas del Toro.

E. C. McFarland, Vice-Consul. SALVADOR.

Panama.

Ernesto A. Boyd, Consul General. SANTO DOMINGO.

Colon.

José M. Fidanque, Vice-Consul. SPAIN.

Panama.

José Albiñana, Acting Charge d'Affaires and Consul.

Luis San Simon y Ortega, Vice-Consul.

Colon.
Antonio Andrade Polanco, Consul. David.

Pedro del Rio, Consular Agent.

Santiago de Veraguas.
Julio García Sierra, Vice-Consul.

SWEDEN. Panama.

B. Malo, Consul. Colon.

J. J. Ecker, Vice-Consul. SWITZERLAND.
Panama.

José Misteli, Consul.

UNITED STATES. Panama.

Jennings Price, Envoy Extraordinary and Minister Plentipotentiary.
Clarence B. Hewes, Secretary of the Legation.
H. B. Crosby, Military Attache.
Alban G. Snyder, Consul General.

Colon.

Julius D. Dreher, Consul. Theodore M. Fisher, Vice-Consul.

Bocas del Toro.

William J. Burke, Consular Agent.

VENEZUELA. Panama. Virgilio Capriles, Vice-Consul.

Colon. Isaias Garbiras, Consul General.

Shipping Commissioner's Sale.

The Acting Shipping Commissioner, room 305, Administration Building, Balboa Heights, Canal Zone, will accept written bids up to noon, Saturday 20, 1919, for the purchase of the personal effects belonging to the estate of A. Cunningham, deceased American seaman. The property to be deceased American seaman. The property to be sold is listed below and bids may be made for the entire lot of the effects or be limited to individual articles.

Prospective bidders desiring to examine the effects should apply to the Acting Shipping Commissioner's office on any business day. Bids should be submitted in sealed envelopes, addressed to the Acting Shipping Commissioner, marked "Bid on effects of A. Cunningham, deceased." The right is reserved to reject any or all bids.

One sea bag, 2 hats, 1 coat, 1 trousers, 1 pipe and case, 1 safety razor.

J. A. MITCHELL, Acting Shipping Commissioner.

Rainfall from August 1 to 31, 1919, Inclusive.

Stations.	Maximum in one day.	Date.	Total.
Pacific section—	Ins.		Ins.
Taboga	4.10	7	6.79
Balboa	1.10	13	5.96
Balboa Heights	1.14	9	5.82
Miraflores	.84	7	4.02
Pedro Miguel	1.30	31	7.61
Rio Grande	2.24	10	9.95
Central section—			
*Culebra	2.04	11	8.58
*Camacho	1.45	27	8.63
Empire	1.59	10	8.49
Gamboa	1.04	16	7.37
*Juan Mina	2 65	16	9.32
Alhajuela	1.40	24	8.11
*El Vigia	1.92	30	7.82
*Darien	1.60	31	10 27
*Trinidad	1.19	28	6.78
*Monte Lirio	3.08	31	10.17
Atlantic section—			0.07
Gatun	3 45	21	9 07
*Brazos Brook	2.36	31	11.10
Colon	2 10	31	6.77
Bocas del Toro.	2 94	17	17.54
*Porto Bello	4.78	14	17.76

*Standard rain gauge—readings at 5 p. m. daily. Automatic rain gauge at unstarred stations-values, midnight to midnight.

Standard rain gauge—readings at 8 a. m. daily.

August Rainfall for Three Vears

- August 1				real						
		INCHES.								
Stations.	1919	1918	1917	Station average.	Years of record.	Rainy days, 1919.				
Pacific section— Balboa Heights Balboa Heights Miraflores. Pedro Miguel. Rio Grande. Central section— Culebra. Camacho Empire. Gamboa Juan Mina Alhajuela. Vigia Frijoles Trinidad Monte Lirio Atlantic section— Gatun. Brazos Brook Colon.	5.96 5.82 4.02 7.61 9.95 8.58 8.63 8.49 7.37 9.32 8.11 7.82 10.19 6.78 10.17	3.75 3.84 5.70 4.41 5.52 4.91 6.81 5.18 8.59 11.36 9.16 10.25 8.91 5.81 11.82 17.95 19.20 18.85	6.27 7.42 9.45 9.51 10.28 9.97 9.95 8.76 12.62 15.30 13.32 15.71 9.71 16.35 12.83 17.81 19.71 15.79	7.54 7.72 8.16 8.26 9.44 10.00 9.43 9.12 11.77 11.63 12.30 12.23 10.26 10.20 11.73 13.99 14.45 14.83	21 23 11 12 15 28 14 16 37 9 21 11 8 12 12	21 222 21 25 222 27 266 25 229 22 266				

Additions to Commissary Stock. Pipes, ea.....\$0.23

Tipes, ca	\$0.23
Pipes, ea	.35
Pulleys for sewing machine motor, ea	.61
Saws, panel, 12-point, Disston, 22", ea	2.25
Saws, compass No. 4, Disston, 12", ea	.45
Shades, Vuder, porch, 6', ea	5.15
Shades, Vuder, porch, 8', ea	6.85
Spoons:	0.00
Tea, tinned, ea	.02
Table, tinned, ca	.04
Distinguished, ea	.04
Dictionary, Standard, Comprehensive,	1 00
Funk and Wagnall's, ea	1.05
Cambric, linen, 36", yd	1.15
Camisoles, satin, assorted colors, plain or	
trimmed, ea	1,35
Collars:	
Soft, Wellsford, ea	.18
Soft, Cavalier, ea	.15
Soft, Oakmont, ea	.23
	.20
Dress goods:	46
Cotton, fancy, white goods, yd	.46
Cotton, fancy, white goods, yd	.22
Cotton, white, fancy pique, yd	.97
Cotton, fancy, white goods, yd	.26
Dimity, fancy, white goods, yd	.49
Organdie, 40", yd	.87
Satin, fancy, yd	.97
Suiting, Carolina, yd	.55
Swiss, yd	.46
Swiss, yd	.46
	.55
Swiss, colored, yd	
Voile, yd Voile, white pattern, 39", yd Voile, white pattern, 39", yd Voile, white pattern, 39", yd Voile, white pattern, 39 yd	.37
Voile, white pattern, 39", yd	. 60
Voile, white pattern, 39", yd	.56
Voile, white pattern, 39", yd	.64
Voile, white pattern, 39, yd	.36
Voile, fancy, yd	. 46
Voile, fancy, yd	
ed, black, pr	. 44
Knickerbockers, boy's, beach cloth, pr	.80
Linen:	.00
Shoor 36" vd	.97
Sheer, 36", yd. Sheer, 36", yd.	1.30
Sheer, so , yd	
Napkins, 18" x 18", ea	.14
Pajamas, men's, assorted, striped percale,	
suit Pins, hump, hair, 20s, pkg	1.40
Pins, hump, hair, 20s, pkg	.03
Shirts, negligee, boy's coat style, collar	
band, soft cuffs, assorted patterns:	
Colored, Madras striped, ea	1,10
White pongette on	1 10

White pongette, ea....

Soap, erasive, Palmer's, cake.....

.

COMMISSARY NOTES.

Beverage.

Orange has been added to the list of flavors of soda water manufactured by the Commissary Division.

Toys.

All commissaries are selling Rollomobiles, at \$2.75. These popular toys are built to withstand the abuse which healthy children may be expected to give them.

Electric Sewing Machines.

No. 1 portable sewing machines, recently arrived, are now offered at all commisearies at \$34.75.

Baskets.

Baskets, of various sizes and shapes, comprising waste paper, market, work, flower, and fruit baskets from Jamaica, are unusual values at the prices asked. They are much in request among commissary customers.

Zweibach.

A fine grade of zweibach is now being made by the commissary bakery and can be obtained at line stores, fresh, daily. The price of 10 cents per package is low in comparison with that of the imported product.

Electric Irons.

A number of customers will be glad to learn that a shipment of 6-pound electric irons has been received by recent arrival from the United States and may be obtained at all line stores, at \$4.95.

Auto Supplies.

A shipment of auto supplies has recently been received and is on sale at Cristobal, Gatun, and Balboa commissaries this week. Lock washers, hand horns, outside blow-out patches, reliners, pumps, Black-Lac, tires and inner tubes, are some of the items.

Books.

Books received:

"The Four Horsemen of the Apocalypse," and "Mare Nostrum," by Blasco Ibafiez (116th edition); "What Happened to Europe," by Frank Vanderlip; "The Undying Fire," by H. G. Wells; "Shops and Houses," "The Happy Family," "Nocturne," "The Chaste Wife," and "On the Staircase," by Frank Swinnerton.

Kerosene Oil.

Kerosene is now sold in any quantity, and not merely in 5-gallon tins, as formerly. Kerosene tanks with pump outfits, which permit such sales, have been placed in operation at the commissaries in Ancon, Ancon Market, Balboa, La Boca, Pedro Miguel, Red Tank, Gatun, Camp Bierd and Cristobal. These tanks are of concrete and are located outside of the commissary buildings. Yearly sales of kerosene through the commissaries amount approximately to 250,000 gallons. So that kerosene might be sold with less trouble to customers, and with less work to the Commissary Division, requisition for the 9 tanks and pumps was placed in July, 1918. The outfits were received and installation was handled by the Building Division,

Delivery Delay.

Typical of conditions now existing in many lines is the following letter from a manufacturer in the United States, with whom the Commissary Purchasing Agent

placed awards for certain items of hardware:

"We quite agree with you that 90 days seems an unreasonable period in which to execute an order, especially as in the past we have been able to give you prompt delivery, but briefly the explanation is this: The trade generally, has held off buying in the firm conviction that prices would come down. Now with the shelves empty and facing no lower prices they have simply swamped us with business. These orders are from our old time customers both at home and abroad and we are under obligations to all. We are simply doing the best we can and if we can ship your order earlier than 90 days we assure you we will do so."

THE PANAMA CANAL RECORD



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The Panama Canal, Washington, D. C.

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Volume XIII. Balboa Heights, C. Z., September 24, 1919. No. 6.

Purchases by Vessels from Canal Commissary Division.

Two thousand two hundred forty-six dollars and five cents was the average of the daily purchases by commercial steamships of commissary supplies from The Panama Canal during the last fiscal year. The total of their purchases for the year was \$819,808.17, which is slightly over \$68,300 per month. The total was made up of \$761,746.16 for miscellaneous groceries and cold storage; \$25,067.37 for coffee, \$21,192.21 for bakery products, and \$11,802.43 for ice. In addition, the Commissary Division rendered laundry service for the commercial ships valued at \$19,123.62, averaging \$1,593.63 per month.

Sales to vessels of the United States Navy are accounted for with other sales to the United States Government. The latter amounted to \$2,395,162.73 during the year. It is estimated that one-fourth of these sales were to ships of the Navy, purchases by which would accordingly approximate \$600,000 a year. Including the estimated sales to Naval vessels, the value of the purchases by vessels during the year averaged approximately \$118,000 a month.

Ship's Chandlery.

The General Storekeeper at Balboa has completed an investigation of the extent to which the range of standard ship's chandlery kept in stock on the Isthmus might be extended, and reports that as a whole the steamship operators, masters, and agents are very well satisfied with the stock now handled by The Panama Canal.

Suggestions along this line are always welcome and will be given due consideration.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending September 20, 1919.

	•			Car	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
				Tons.	Tons.
Balboa	Terminal Shipping Agency		September 14.		205
Middlebury	Panama Railroad Commissary		September 14.		17
Namecki	Panama Railroad Steamship Linc.		September 15.		(*)
Nortonian	Leyland Steamship Line		September 15.		3,8701
Urubamba	Peruvian Steamship Line		September 16.		289
Huasco	United Fruit Company		September 16.		1,3351
Saint Louis	Compagnie Gen. Transatlantique		September 16.		$4,735\frac{1}{2}$
Acajutla	Pacific Steam Navigation Co	September 15.	September 18.		736
Fuerto Rico	Compagnie Gen. Transatlantique	September 15.	September 19.		1/2
Jamaica	Pacific Steam Navigation Co	September 15.	September 20.	768	902
Abangarez	United Fruit Company	September 16.	September 16.	36	22
Manuel Calvo	Spanish Steamship Line	September 16.	September 17.	388	981
Panama	Panama Railroad Steamship Line		September 18.		3,5681
Tivives	United Fruit Company	September 17.	September 18.	869	13
Imperial		September 17.		1,439	
Atenas	United Fruit Company	September 18.		11/2	1
C. A. Canfield	Anglo-American S. S. Agency	September 18.		3,148	(*)
Metapan	United Fruit Company	September 19.			89
Logician	Leyland Steamship Line	September 19.			
Lake Hurst		September 19.			
Middlebury		Scptember 19.			
Buford	United States Government		September 20.		433
Manavi		September 20.			
San Jose	Pacific Mail Steamship Line				
Gen. O. H. Ernst	Panama Railroad Steamship Line	September 20.		1.839	

*No eargo laded.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending September 20, 1919.

NT	Y. 1=.			Cargo-		
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.	
Balboa Ulysses Jamaica. Kronprinzessan Margareta. San Jose. West Chatala Manavi. Newport. Jamaica	Colombian Maritime Co. United States Government Pacific Steam Navigation Co Johnson Line Pacific Mail Steamship Co. United States Shipping Board. Pacific Steam Navigation Co. Pacific Mail Steamship Co. Pacific Mail Steamship Co. Pacific Steam Navigation Co.	September 14. September 14. September 15. September 18. September 18. September 20. September 20. September 20. September 20.	September 16. September 17. September 15. September 17. September 20. September 20. September 20.	578 1 35	Tons. 34	

October Weather Probabilities.

During the month of October, 1919, the following weather conditions may be expected at the Canal entrances. Predictions are based on the records at Colon and Balboa Heights for the past 12 and 13 years, respectively:

Winds—Light, variable winds will prevail over the Atlantic coast with an average hourly velocity of about seven miles. The prevailing direction of the wind is usually from the southeast, although a considerable percentage of west and northwest winds may be expected during the month. A maximum velocity of from 30 to 38 miles an hour may be expected during the passage of local rain or thunder squalls.

Over the Pacific coast and the interior, light northwest winds will prevail with an hourly velocity of about 6 miles. Here, too, during occasional rain or thunder squalls, the maximum velocity of the wind may exceed 30 miles an hour, but these

wind storms are invariably of short duration.

Rain—The average October rainfall at the Atlantic entrance of the Canal is 14.89 inches, and on the Pacific side 10.25 inches, these averages being for periods of 49 and 22 years, respectively. About 25 days with rain may be expected on the Atlantic coast, and 22 on the Pacific coast, while the average number of days with heavy rain (1.00 inch or more) has been 6 at the Atlantic entrance and 3 at the Pacific. Throughout the length of the Canal, the greatest part of the rainfall occurs during the daytime, the heaviest rainfall generally occurring between the hours of 1 p.m. and 4 p.m. However, at this season of the year, the percentage of daytime rain fall is higher over the interior and Pacific coast than over the Atlantic coast, and heavy rainfall may be expected on the Atlantic side during the early morning hours. Over both coasts the time of least rainfall is from 8 to 9 a. m.

Fogs—No fogs are likely to occur at either Canal entrance, but night and early morning fogs will be numerous over the interior. About 25 nights with fog may be expected over the Gaillard Cut section of the Canal, but as all fogs lift or become dissipated before 8.30 a.m., they should not prove a hindrance to navi-

gation.

Temperature—The average shade air temperature will be about 79° Fahrenheit on both coasts. On the Atlantic coast the temperature is not likely to rise above 90° F., or fall lower than 70° F., while on the Pacific side the maximum temperature may be as high as 94° F. and the minimum as low as 68° F. The mean daily range of temperature will be about 10° F. on the Atlantic coast and 14° F. on the Pacific coast.

Barometric pressure—The average sea-level atmospheric pressure will be approximately 29.85 inches over both coasts. The maximum pressure for the month is not likely to exceed 29.95 inches, or the minimum to be lower than 29.70 inches.

Relative humidity—The humidity of the atmosphere should average about 87 per cent over both coasts. The daily range in humidity is greater on the Pacific coast than on the Atlantic side, the average night-time humidity being higher and the midday humidity lower than on the Atlantic side. The figures for years of record are 94 and 74 on the Pacific side and 92 and 78 on the Atlantic.

Storms—The Isthmus is seldom visited by violent or widespread atmospheric disturbances although rain, wind, or thunder storms of more or less limited extent are of common occurrence, and may be expected quite frequently during the month. Rough weather may be experienced occasionally to the northward of the Atlantic entrance, as this is the season of the West Indian hurricane. The path

of these storms lies well to the northward of the Isthmus, but a rough sea accompanied by brisk winds may be expected outside the breakwaters, following the passage of one of those storms. Generally cloudy weather will continue over both coasts, and smooth seas are usually experienced at the Pacific entrance during the month of October.

Tides—Tidal fluctuations on the Atlantic side do not affect navigation as the

extreme tidal range at Colon is but approximately two feet.

Panama (Balboa) tide predictions for the month are presented in the following table:

Day	y of-		and He			Da	y cf-		and He			Da	y of-			ight of		
W.	Mo.	an	d Low	Water		W.	Mo.	aı	nd Low	Wate:		W.	Mo.	a	and Low V		water.	
W	1	1:49 3.8	7:37 13.4	2:16	8:08 12.7	s	12		11:37 -1.4	5:44 17.2		Th	23	3:10 15.2	9:33 1.4	3:35 14.9	9:47 1.9	
Th	2	2:37 4.6	8:18 12.6	3:10 4.4	9:00 12.1	М	13	6:01 17.6	12:23 -1.0	6:31 16.8		F	24	3:47 15.4	10:09 1.0	4:13 15.0	10:23	
F	3	3:36 5.2	9:12 11.9	4:13 4.9	10:03 11.7	Tu	14	0:45 0.2	6:50 16 ₉	1:11	7:22 16.1	S	25	4:23 15.5	10:44 0.8	4:48 15.1	10:59 1.8	
S	4		10:26 11.7	5:23 4.9	11:20 12:0	W	15	1:37 1.3	7:42 15.9	2:04	8:16 15.2	s	26	4:57 15 4	11:16 0.9	5:24 15.0	11:33 2.0	
S	5		11:49 12.0	6:30 4.4		Th	16	2:36 2.4	8:37 14.8	3:05 2.2	9:16 14.2	М	2-	5:31 15.1	11:53 1.3	5:58 14.7		
M	6	0:28 12.8	7:02 4.1	12:57 12.9	7:29 3.5	F	17	3:42 3.3			10:27 13.6	Tu	28	0:08 2.4	6:03 14.7	12:29	6:33 14.3	
Tu	7	1:23 13.9	7:57 2.8	1:50 14.0	8:20 2.3	S	18	4:55 3.8	10:59 13.1		11:42 13.5	w	29	0:45 3.0	6:37 14.2	1:08	7:08 13.8	
W	8	2:12 15.2	8 · 45 1 . 4	2:40 15.2	9:06	s	19		12:16 13.2	6:32 3.6		Th	3⊃	1:25 3.6	7:12 13.6	1:48	7:47 13.4	
Th	9	2:56 16.3	9:30 0.2	3:24 16.1	9:50	M	20	0:50 13.9		1:20	7:34 3.3	F	31	2:11 4.2	7:52 13.1	2:36	8:33 13.0	
F	10	3:41 17.2	10:12 -0.8	4:09 16.9	10:32		21	1:45 14.4		2:12	8:25							
S	11		10:55 -1.4	4:57 17.8	11:14 -0.7	w	22	2:30 14.8		2:56 14.5	9:08						0	

The tides are placed in the order of their occurrence; the times of high and low tides are shown on the upper lines. The figures in boldfaced type are hours and elevations between noon and midnight; ante meridian figures are given in the ordinary lightfaced type. The time is Cosmopolitan Standard for the meridian 75 W.

The elevations of the water are shown on the second line for each day; a comparison of consecutive heights will indicate whether it is high or low water. Heights are reckoned from mean low water springs, which is 8.3 below mean sea level and is the datum of soundings on the Coast and Geodetic Survey cnarts for this region. The depth of water may accordingly be estimated by adding the tabular height of the tide to the soundings, unless a minus (-) sign is before the height, in which case it is to be subtracted. The annual inequality or variation in the mean sea level is included in the predictions. predictions.

Work on Ex-German Ships Drawing to Completion.

Following the receipt of the two main engine cylinders for the former German steamship Anubis, renamed Paita, from the United States in August and of other replacement items during September, after delay occasioned by strikes in the United States, work on the completion of the vessel has been pushed, and it is expected that it will be ready to turn over to the Shipping Board about the end of the month.

The Paita is the last of five ships towed from Callao and given a complete overhauling, amounting to a partial rebuilding, at Balboa shops. The others were, in the order of completion, the Callao, Eten, Pisco, and Salaverry. Their aggregate gross tonnage is 32,841 tons. The first of the ships left Callao on September 6, 1918, and left the

Isthmus for New York, after overhauling, on April 8, 1919.

Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama"; in the United States, "Pancanal, Washington."

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight September 20, 1919.

THROUGH THE CANAL-ATLANTIC TO PACIFIC.

Canal	tonnage	Net	4,387	350	5,346	4,652	9	3,215	3,824	4,631	5,042	29	§ 10	3.047	V	622
Panama Cana	tonr	Gross	5,974	734	7,057	6,625	4,508		5,062	6,752	,261 7,020	513	1,2/6	4.605	3,500 6,345	1,187
	Tons		6,904	207	4 116	9,300	1,336	259		7,758	9,261	200	007	5.600	3,500	_ :
	Cargo		Kerosene oil		Coke and coment 4 116 9 648		General	General		:	Crude oil.	Conono	Center al	General	Fuel oil	General
	For		Shanghai	Esmeraldas	Callao.	San Francisco.	Valparaiso	Callao	Farta	Honofulu	Antolagasta	Custoguil	Cristobal	Salaverry	Chanaral	Buenaventura. General
	From		New Orleans	Cristobal	Baltimore	New York	Cristobal	Cristobal	Gibraltar	New York	Newfolls.	Cristobal	Gatun Lake	47.0 24.6 New York	Tampico	Cristobal
70		drait	26.4	27.27	20.6	28.3	23.6	9.6	0.4.0	20.02	10.07	15.0		24.6	21.10	12.9
	Beam		51.3	23.0	46.5	55.8	44	70.07 20.0	91.4	00.02	1.10	33.5		47.0	55.5	34.0 [12.9]
	Length Beam		406.0	445.0	313.0	412.4	0.678	0.155	0.076	0.004	180.4	215.7			405.0	220.0
	Line		Anglo-Saxon Petroleum Co	Nippon Yusen Kahnshiki Kaisha	Bendix Grefstad.	Canadian Robert Dollar Co., Ltd.	Portuga Stormebia Line	Allon Blook & Common.	Alfred Holt & Company	W Wilhelmoon	II S Coast & Goodotio Survey	Pacific Steam Navigation Co.	W. P. Frisbie.	United States Steel Products	Fan-American Fet. & Trans. Co.	Tacine Steam Navigation Co
	Nationality		British	Japanese	Norwegian.	British	Permian	<u>.</u> ~	α	12			American		American	Drittsh
Cleared for sea	mo	н	16,28	19.36	18.55	16 14	91 4S	14.57	14 10	17 97		20.58		14.47	20.00	01.57
1 -	3V	α	41.	14	15	29	2 5	9	17	00		18	: 1	57 -	200	077
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Con	YE	D	77	14	15	2 2	91	9	12	_		_	200			- 1
Entered Canal	mo	н	6.51	11.08	10.35	2.52	11.43	6.05	6.16	6.50	8.10	12.00	15.05	19 02	77.0	7.00
E C	J	α	14	17	15	91	16	91	17	00	18		200	2 0	06	3
Arrived at port	mo	Н	16.36	7.52	23.07	16.30	21.45	18.40	15.40	4.54	2.40	15.44		19.23	18.0	
Arr	sy	D	13							_	17	15		0 00		2
	diuc		Patella.	Tokiwa Maru	Kronstad	Huaseo	Urubamba	Thistletor	Eurylochus	San Joaquin	Lydonia (a)	Acajutla	Marion (b)	C A Canfald	Jamaica	

THROUGH THE CANAL-PACIFIC TO ATLANTIC.

1,721	8.918 1,906 1,685 1,685 722 1,670 1,670 1,646 6,910 1,354 483
2,672	2,275 2,994 2,994 1,193 1,193 1,566 1,566
1,643	8.0001 2,361 (7) 1,096 691 691 1,530 1,647
Fir, rwy. ties 1,643 2,672 1,721	Frozen meats. 8 00012.275 Scanned goods 2,361 2,994 1 Lumber. (7 2,693 1,391 Sugar. 1,696 1,391 Shin, lumber 691 1,193 Nitrates 2,700 2,657 1 Nougas fit, ties 1,530 2,648 1 1530 Eougas fit. 1,647 1,556 Douglas fit. 1,647 1,566 1
New York	iverpool ew York ueen stopnol ristobal ristobal ristobal (FO) orensty (FO) orfolk ristobal (room orensty or orensty or orensty or orensty or
Tacoma	Balboa. Sydhey. San Francisco Ran Anaimo. Eten. Tacoma. Vancouver. (quique. Saattle. Saattle. Saattle. Tacoma.
22.5	27.6 15.5 16.2 16.2 16.2 16.0 22.10 22.0 12.0 12.0
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United States Shipping Board 268.0 46.5 22.5 Tacoma	United States Army Poledal Steam, Navigation Co. Profeed Steam, Navigation Co. French Government. French Government. French Government. Pacific Steam Navigation Co. Frengh Government. United States Shipping Board. Conteins Bull & Company.
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16.0	112.00 112.00 113.00 114.00 116.20
23 14	223 14 110 14 117 14 117 14 122 15 222 15 224 15 233 16 233 16 332 17 332 17
	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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Ardena	Graham (e) 14 8.23 14 13.2 7.8 American. Bropshire. 14 11.00 14 12.10 14 20.25 15 7.0 British. Broth. 14 10.00 14 12.17 14 20.21 15 0.2 18 40 British. Lyc. 14 10.00 15 15 15 14 18 12 00 British. Acajuda. 15 16 16 15 15 14 18 12 00 British. Jamaica. 15 16 16 16 17 18 13 10 British. Jamaica. 16 16 16 17 18 13 16 10 British. Mahnet. 16 16 17 18 17 13 17 14 15 American. Myses. 16 18 16 17 18 1

(a) Coast guard cutter. (b) Launch. (c) Mineplanter. (d) Sailing. (e) Yacht. (f) 1,323,992 feet.

397	967 184 906 770 794	,375 ,975 ,759 ,617
,621 2,	360.2 51.4 16.5 San Francisco. Sweden	,690 4 ,694 3 ,241 ,337 1
40	20 (2) (3) (4) (4) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	100 100 135 178 19.5 2
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41.3	51.4 45.2 49.9 58.2 40.4	50.0 53.0 51.5 35.1
336.8	360.2 232.8 267.8 457.3 273.8	400.0 402.5 360.5 216.0 283.0
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	Boar Co	Boal E.S. Si ion C.
	Co ipping ipping	oing C ipping Pacifi avigat
ne	Sull & Su	Shipp tes St tes & tes & un N.
an Li	son Li elius I ed Sta Zeala ed Sta	ashire ad Sta ed Sta ic Ster
Chilean Line.	Johnson Line Cornelius Bull & Co. United States Shipping Board New Zealand Shipping Co. United States Shipping Board	Lancashire Shipping Co. United States Shipping Board. United States & Pacific S. S. C. Pacific Steam Navigation Co. Pacific Mul Steamship Co.
D	h gian an	an
Chilea	1.00 17, 19.35 17 20.10 Swedish Joh 1.06 18 17.05 17.17 American Univ. 1.07 18 16.15 18 24.00 British New 1.55 18 20.20 19 2.10 American Univ.	British Americ Americ British Americ
0.11	0.10	5.50
22	10 80 61	20
18.45	19.35 17.05 14.56 16.18 20.20	15.20 14.40 14.35 15.45
17	78888 8	28882
11.27	13.00 7.06 7.57 7.57 12.55	8.07 6.35 7.30 7.46
17	188 188 18	28882
10.15 17	17.00.00	12.01 17.00 3.30 12.18
17	1771	10 20 20 18
Imperial	Kronprinzessan Margareta (g). Mt.Hamilton(g) Corval'lis Ruapchu	Muneaster Castle Cansumset Santa Luisa Manavi

(g) Motor ship. (h) 1,358,264 tect. (i) 1,554,000 feet. Hours are express

Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

PORT OF CRISTOBAL.

*DEPARTURES	Line From Date Vessels Line For	San Nazaire and wayports. Sept. 14. Middebury Panama Railroad Commissary Cartagena. Babana. Sept. 15. Nameeki United States Shipping Board Newport News. Company New York and Habana. Sept. 16. Nortoniaa United Fruit Company New York and Habana. Sept. 16. Nortoniaa Company New York and Port Limon. Sept. 18. Sept. 18. Panama Railroad Steamship Line. New York and Mainten Sept. 18. Nameeki Company New York and Mainten Sept. 18. Nameeki Company New York and Mainten Sept. 18. Nameeki Company Sept. 18. Nameeki Company Sept. 18. Nameeki Sept. 18
*ARRIVALS .	From	1 : si
	Vessels	Puerto Rico French is Manuel Calvo Spanish Appagarez United Trivios Control Control Control Control Control Control Congician Lake Hurst Hiddleburs Middleburs Franch Middleburs
		DESCRIPTION

*Other than ships passing through the Canal.

Corrected Figures for Tonnage of Ships through the Canal in July.

In the report of the Governor to the Secretary of War for the month of July, 1919, published in The Panama Canal Record of September 10, some of the figures for tonnage of commercial ships were in error, due to mistakes in tabulation. The following are the corrected figures for the 158 commercial ships:

Item. Cristoba	l. Balboa.	Total.
Net tonnage of commercial ships, P. C. measurement 223,4 United States equivalent net tonnage of commercial ships 194,1 Registered gross tonnage of commercial ships 291,7 Registered net tonnage of commercial ships 186,4	35 247,633 380,380	510,808 441,818 672,088 430,519

The same errors require the correction of the tables of tonnages by nationalities which are presented below as revised:

Item.	Cristobal.	Balboa.	Total.
Panama Canal net tonnage of commercial ships through the Canal: British. Chilean. Danish.	131,859 5,570	96,899 5,570 3,479	228,758 11,140 3,479
French Japanese. Norwegian.	18,185	3,934 18,477 5,042	3,934 36,662 5,042
Peruvian Panamanian	5,005 53	8,220	13,225 53
Swedish	3,909 58,918	2,467 143,230	3,900 2,467 202,148
Total United States equivalent net tonnage of commercial ships, through the	223,490	287,318	510,808
Canal: British Chilean	115,387 3,540	83,089 3,540	198,476 7,080 2,823
Danish French Japanese	15,926	2,823 3,840 16,095	3,840 32,021
Norwegian Penuvian Panamanian	3,351 53	4,438 5,803	4,438 9,154 53
Swedish Spanish. United States.	2,380	2,224 125,781	2,380 2,224 179,329
Total	194,185	247,633	441,818
British Chilean Danish	170,639 6,367	127,303 6,367 4,395	297,942 12,734 4,395
French. Japanese. Norwegian.	23,652	4,729 24,116 6,987	4,729 47,768 6,987
Peruvian. Panamanian Swedish	7,922 69 3,805	12,677	20,599 69 3,805
Spanish United States.		3,370 190,436	3,370 269,690
Total	291,708	380,380	672,088
British. Chilean. Danish	108,049 3,889	81,890 3,889 2,795	189,939 7,778 2,795
French Japanese. Norwegian.	15,183	3,834 14,855 4,422	3,834 30,038 4,422
Peruvian. Panamaulan Swedish	3,941	4,422 7,014	10,958 53 2,833
Spanish United States.	52,485	2,174 123,213	2,174 175,698
Total	186,433	244,086	430,519

Commissaries Closed on Account of Quarterly Inventory.

Commissaries will be closed for quarterly inventory all day on Tuesday, September 30. The grocery and cold storage sections will be opened not later than 10 a. m. on Wednesday, October 1, and other departments as soon as the check by the Auditor's representatives has been completed.

Witnessing Pay Receipts.

Balboa Heights, C. Z., September 20, 1919.

To all concerned—My attention has been called to the fact that it is a not uncommon occurrence for undelivered pay receipts to be returned to the Bureau of Payrolls, bearing the signature of a witness without

such pay receipt having been signed by the payee.

The practice of witnessing pay receipts in advance of signature by payee is contrary to instructions heretofore issued. It is impossible for a person to witness a signature before that signature is written, and this practice is strictly prohibited. Timekeepers or foremen violating this rule in the future will be subject to discipline.

> CHESTER HARDING, Governor, The Panama Canal. President, Panama Railroad Co.

Riprapping to Protect Bases of Range Light Towers.

The Lighthouse Subdivision is completing the work of protecting four of the range light towers in Gatun Lake from erosion due to wave action. This has included the placing of concrete blocks around the bases. On one of them, tower No. 19, nearly two hundred cubes, two feet on the side, were used for riprapping, and since then erosion has been practically stopped.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal postoffices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286):

Field superintendent of insect control (male); \$1,800 to \$2,400 a year; No. 453-amended; October

Field superintendent of insect control (male); \$1,800 to \$2,400 a year; No. 453-amended; October 14, 1919.

The United States Civil Service Commission announces that the date of the open competitive examination for field superintendent of insect control (announcement No. 453), for men only, to fill vacancies in the Burcau of Entomology, Department of Agriculture, is October 14, 1919, instead of October 4 as stated at the head of the original announcement.

Assistant in marketing dairy products, Grade 1; \$1,800 to \$2,400; No. 324.

Inspector of dairy products; \$1,800 to \$2,400; No. 570.

Assistant in transportation, Grade 1; \$1,800 to \$2,700; No. 596.

The United States Civil Service Commission states that as sufficient eligibles to meet the needs of the service have been obtained from the open competitive nonassembled continuons examinations listed above, until further notice no applications for these examinations will be accepted unless filed with the Commission at Washington, D. C., prior to the hour of closing business on September 23, 1919.

Glass blower, (male); Bureau of Standards; \$1,200 to \$1,860 a year; No. 466; October 28, 1919; form 1312; age, 20 years but not 46 years.*

Artist (male); \$1,800 a year; No. 465; October 14, 1919; form 1312; age, not under 20 years.*

Mcdical interne (Saint Elizabeth's Hospital) (male and female); \$1,200 a year; No. 460; October 22, November 19, and December 10, 1919; form 1312; age, 20 years or over.

Agriculturist in charge of demonstrations on reclamation projects (male); \$3,500 a year; No. 454; October 14, 1919; form 2118; age, 25 years or over.*

Glass blower (male); Bureau of Standards; \$1,200 to \$1,860 a year; No. 466; October 28, 1919; form 1312; age, at least 21 years.*

Surveillance inspector (male); Ordnance Department at large; \$1,600 to \$2,400 a year; October 21, 1919; form 1312; age, at least 21 years.*

Assistant mechanical engineer (Bureau of Mines) (male); \$1,500 to \$1,680 a year; No. 360-amended; October 14, 1919; form 1312; a.e., ary.*

Chief of division for scientific research, \$3,500 to \$4,500 a year; chief of division for records, information, and planning, \$3,500 to \$4,500 a year; supervising assistant, \$2,860 to \$3,600 a year; chief of division of records, information, and planning, \$3,500 to \$4,500 a year; supervising assistant and inspector, \$2,800 to \$3,600 a year; field agent, \$1,800 to \$3,000 a year (male and female); November 4, 1919; form 2118; age, no limit.*

Aeronautic engineer (Bureau of Construction and Repair, Navy Department) (male); Grade 1, \$5.20 to \$8,80 per diem; Grade 2, \$9,20 per diem and above; October 28, 1919; form 1312; age, 20 years or over.*

^{*} Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

Almost Whole Cargo of Fruit from California.

The motorship Kronprinzessan Margareta, passing through the Canal on September 17, carried almost a whole cargo of canned fruits from San Francisco to Swedish ports and Helsingfors, Finland. The cargo of 1,396 tons included 94 tons of coffee for Gothenburg and 1,302 tons of fruit, of which 99 tons were for Helsingfors, 523 tons for Stockholm, 283 tons for Malmö, and 397 tons for Gothenburg.

Deceased and Insane Employees.

The estates of the following deceased or insane employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public or other public officer having a seal, and submitted in duplicate. These names will be published but once:

DECEASED.							
Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.		
Wm. Cumberbatch	23996	Barbados		Pacific Locks	August 29, 1919.		
Wm. Dowers (Downs)	33493	Trinidad		Commissary Division	August 30, 1919.		
Jacob Lewis	26980	Guadeloupe	Colon	Mechanical Division	August 21, 1919.		
Leonard Lindsay (alias		· ·					
Lency)	51993	Guadeloupe	Camp Bierd	Sanitary Department	August 22, 1919.		
Jose Anastacio (alias				and a special section of	., ., .,		
Ignacio) Frias	41545	Colombia	Panama	Municipal Eng. Div	September 1, 1919.		
Reuben Berry	32745	Jamaiea	Colon	Commissary Division	August 24, 1919.		
Elijah Manning	28141	Jamaiea	Cativa R. P	Municipal Eng. Div	August 24, 1919.		
Juan Isabel Vega	41211	Panama	Panama	Commissary Division	September 8, 1919.		
Augustus Pilgrim	25686	Barbados		Mechanical Division	September 11, 1919.		

			INSANE.		
Name.	Check No.	Native of-	Isthmian residence.	Employed by—	Date of commitment.
Guy K. Rounsevell Victor Rose Juan Munoz	22149	Martinique	Paraiso	Accounting Dept Supply Department Cattle Industry	August 5, 1919.

Official Circulars.

Unserviceable Rubber Stamps.

THE PANAMA CANAL, SUPPLY DEPARTMENT.

BALBOA HEIGHTS, C. Z., September 22, 1919. To all concerned—It is respectfully requested that all unserviceable rubber stamps in the various offices of The Panama Canal and Panama Railroad Company, be forwarded to The Panama Canal Press, Mount Hope, where they can be utilized to good advantage,

R. K. Morris, Chief Quartermaster.

Stops of Panama-Paraiso Labor Train in Panama Yard.

PANAMA RAILROAD COMPANY, OFFICE OF MASTER OF TRANSPORTATION, Balboa Heights, C. Z., September 17, 1919. CIRCULAR No. 1371:

To conductors and engineers, P. R. R.—In view of the fact that Panama-Paraiso labor train consists of 21 cars, crew handling this labor train

evenings from Paraiso will arrange to make 3 stops in Panama yard instead of 2 as heretofore. First stop to be made with head and about oppo-First stop to be made with head and about opposite No. 8's engine, then pull down an equal number of car lengths in making the other 2 stops. This to permit passengers detraining to pass from Panama yard to main thoroughfare north of No. 8's engine and avoid laborers climbing over coaches.

This cancels all previous instructions issued relative to stopping train in Panama yard. Panama-Paraiso

W. J. BISSELL, Acting Master of Transportation.

Sale of Tug "Chame."

Sealed bids will be received in the office of the Chicf Quartermaster, The Panania Canal, Balboa Heights, Canal Zone, up to 10.30 a. m., October 23, 1919, and then opened, for the purchase of the tug Chame. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

COMMISSARY NOTES.

Toys.

California coasters, ordered for Christmas, are unobtainable, as the contractors advise that their factory has accepted orders beyond capacity for this year on these toys.

Shoes.

The shoe sale held at Cristobal and Balboa commissaries recently was well attended \$2,100 worth being sold the first day. Not only was most of the bargain stock disposed of, but business was stimulated on other lines of shoes as well.

THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

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Volume XIII.

Balboa Heights, C. Z., October 1, 1919.

No. 7.

CANAL WORK IN AUGUST.

The following is the report of the Governor to the Secretary of War, of Canal work in the month of August, 1919:

BALBOA HEIGHTS, C. Z., September 23, 1919.

The Honorable, the Secretary of War,

Washington, D. C.

Sir: I have the honor to submit the following report of The Panama Canal for the month of August, 1919:

CANAL TRAFFIC.

The number of ocean-going commercial vessels passing through the Canal for the month was 188, exclusive of 34 United States Government vessels, as follows: Two battleships, 3 cruisers, 3 colliers, 6 supply ships, 9 destroyers, 1 submarine, 1 submarine tender, 1 mineplanter, 2 minesweepers, 1 tug with target, and 2 subchasers of the Navy; and 1 transport and 2 tugs of the Army. The total number of oceangoing vessels was 222, in addition to which 1 launch went from Atlantic to Pacific.

going vessels was 222, in addition to which I launch went from Atlantic to Pacific. Classifications of the traffic are shown in the following tabulations. The net tonnage of the 188 commercial ships aggregated 586,111 tons, Panama Canal measurement. Their registered gross tonnage was 757,843 tons, and their registered net tonnage 487,811 tons. The cargo carried totaled 715,724 tons of 2,240 pounds, and exceeded that handled during any month since May, 1918, when 780,041 tons went through the Canal. Of that in August, 1919, 7,928 tons were carried as deck load. Ships of 10 different nationalities were included in the month's traffic. The total Panama Canal net tonnage of commercial ships was 75,303 tons more than that of commercial ships passing through the Canal in July, when 158 ships of 510,808 tons made the transit. The cargo was 147,552 tons more than that handled through the Canal in July.

Canal in July.

Three British transports carried 2,259 troops through the Canal from Europe to New Zealand, and 1 United States transport carried 58 troops and 1,017 tons of cargo from New York to San Francisco, disembarking 86 passengers at Cristobal.

The United States coastwise trade was made up of 26 vessels aggregating 99,087 net tons, Panama Canal measurement, and carrying 154,219 tons of cargo. From the Atlantic to the Pacific, 4 ships with a total net tonnage of 19,132 net tons, Panama Canal measurement, carried 28,992 tons of cargo. From the Pacific to the Atlantic, 22 vessels of 79,955 net tons, carried 125,227 tons of cargo.

The United States Shipping Board operated 3 of the westbound ships in the coastwise trade, with a net tonnage of 12,369 tons, Panama Canal measurement, carrying 17,992 tons of cargo, and 20 of the 22 vessels eastbound. The net tonnage of the 20 ships from Pacific to Atlantic aggregated 77,090 tons and their cargo amounted to

125,227 tons.

Among the principal commodities included in the traffic from the Pacific to the Atlantic during the month were: Flour, 3 whole cargoes, aggregating 23,922 tons; 1 lumber and ties, 22 whole cargoes, 62,591 tons; 6 whole cargoes of nitrates, 27,088 tons; 5 whole cargoes of sugar, amounting to 43,595 tons; barley, 6 whole cargoes, 17,950 tons; 3 whole cargoes of wheat, 22,679 tons. Twenty-six ships carried general cargoes amounting to 74,623 tons. Four ships went in ballast from the west coast to Tampico; their aggregate net tonnage, Panama Canal measurement, was 18,802 tons.

The bulk shipments from Atlantic to Pacific were: Fuel oil, 9,000 tons, for the west coast of South America; kerosene, 17,422 tons, of which 6,606 tons were from New Orleans to Shanghai, and 10,816 tons from Sabine to Hongkong; petroleum, 18,992 tons, of which 7,992 tons were from New York to Nagasaki, and 11,000 tons from Beaumont to San Francisco; coal, 18,891 tons, of which 5,261 tons were from Norfolk, bound for the west coast of South America, 2,629 tons from Newport News to Callao, 4,500 tons from Norfolk to Port Chalmers, and 6,501 tons from Norfolk to Coquimbo; coke, 1,623 tons, from Baltimore to Callao; 3 cargoes of crude oil, 24,626 tons, of which 9,261 tons were from Tampico to Tocopilla, and 15,365 tons from

Tampico to San Francisco; 1 cargo of case oil, 5,880 tons, from New York to Brisbane; 1 cargo of oil, 8,484 tons, from Beaumont to San Francisco; 1 cargo of railroad material, 932 tons, from New York to La Union; 1 cargo of Army supplies, 1,997 tons from Baltimore to San Francisco; and 52 general cargoes amounting to 209,108 tons.

Commercial vessels passing through the Canal on their way to the west coast of

Central and South America during August were, by nationalities, as follows:

Nationality.	No. of shirs.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
British. Norwegian. Chilean. Peruvian. Italian. Swedish United States. Total.	3 2 1 1	29,793 19,130 9,078 8,065 5,663 4,952 46,318 122,999	17,987 12,023 5,503 4,587 3,458 3,973 28,872 76,403	23,343 14,288 8,055 5,459 4,266 4,013 33,095	Tons. 19,550 18,261 2,093 2,516 700 1,434 45,183

Of the 42 vessels, 18 with 11,865 tons of cargo originated at the Atlantic terminus of the Canal; 17 with 50,289 tons, came from United States ports; 2 with 18,261 tons of oil from Tampico; 1 with 903 tons of general cargo from Liverpool; 1 with 700 tons of general cargo from Genoa; 1 with 1,434 tons of general cargo from Gothenburg: 1 with 6,285 tons of general cargo from Glasgow, and 1 with no cargo from

Puerto Plata.

Shipments from the west coast of Central and South America through the Canal during August were carried by 37 vessels. Three were bound for Great Britain, with 6,000 tons of sugar from Eten and 14,230 tons of general cargo from Chilean ports. Twenty-one completed the voyage at the Atlantic terminus of the Canal, discharging 1 bulk cargo of 1,030 tons of ivory nuts from Nanta, and 24,165 tons of general cargo, including coffee, nuts, hides, and other raw materials. Nine ships were on the way to the United States; 6 had whole cargoes of nitrate, aggregating 27,088 tons of 2,240 pounds; and 3 carried mixed cargoes, mostly ore, sugar, copper, wood, and hides, aggregating 9,981 tons. Four went in ballast to Tampico, Mexico; 3 were from Tocopilla, and 1 was from Corinto.

By nationalities the ships from the west coast of South and Central America were as

follows:

Nationality.	No. of ships	gross	Registered net tonnage.	Panama Canal net tonnage.	Carge.
British. Chilean. Norwegian Peravian United States Totals	17 4 2 2 12 12	41,355 12,894 12,144 7,917 36,369 110,679	24,404 7,793 7,602 3,941 23,107 66,847	32,369 11,088 9,246 5,005 26,014	Tons. 33,194 6,406 8,024 5,109 30,261

The distribution of the traffic through the Canal in August, 1919, according to the principal trade routes, was as follows:

	Ves- sels.	Net tonnage.	Cargo.
United States coastwise. United States to South America. Europe to South America. Cristobal to South America. Cristobal to South America. Europe to west coast of North America. Europe to Australia and New Zealand. United States to Australia and New Zealand. United States to Australia and New Zealand. United States to Far East. Cristobal to west coast of North America. Mexico to west coast of North America. Mexico to west coast of South America. Mexico to west coast of South America. Miscellaneous.	17 4 18 2 5 8 21 2	19,132 40,103 14,612 26,908 7,837 39,431 41,955 99,072 3,994 8,651 10,309 2,508	Tons. 28,992 50,289 9,322 11,865 1,182 9,920 50,881 155,197 3,739 15,365 18,261 4,300
Total Pacific to Atlantic. United States coastwise. West coast North America to Europe. West coast South America to Europe. West coast South America to United States. West coast North America to Cristobal.	29	314,512 79,955 64,259 12,972 21,100 4,736	362,313 125,227 98,634 20,730 37,069 4,524

	Ves- sels.	Net tonnage.	Cargo.
Pacific to Atlantic.—Continued. West coast South America to Cristobal. West coast South America to Mexico. West coast North America to Cuba. Australia and New Zealand to Europe. Far East to east coast of North America.	2 4	30,848 18,802 2,854 22,693 13,380	Tons. 25,195 (°) 4,227 18,808 18,997
Total	100	271,599	353,411

*Ballast.

SERVICES TO CANAL SHIPPING.

Repairs were made on 111 vessels during the month, 65 at Cristobal and 46 at Balboa. Eleven vessels were dry docked at Cristobal and 7 at Balboa. Sales of fuel oil to ships from stock of The Panama Canal were 618.11 barrels to 3 vessels at Cristobal, and 4,127.76 barrels to 2 vessels at Balboa. Coal sales were 42,647 tons to 117 vessels at Cristobal, and 6,237 tons to 21 vessels at Balboa, a total of 138 vessels receiving 48,884 tons. Water sold included 8,191,497 gallons to 181 vessels at Cristobal and 4,342,500 gallons to 153 vessels at Balboa, a total of 12,533,997 gallons to 334 vessels. Sales of commissary supplies to commercial ships of lines other than that of the Panama Railroad aggregated \$67,813.57, of which \$43,318.85 worth, including \$2,012.09 for laundry, was supplied at Cristobal and \$24,494.72, including \$1.71 for laundry at Balboa. Laundry service for all ships amounted to \$3,116.86. Tug service performed for vessels using the Canal and the terminal ports was charged at \$25,963.75, of which \$12,063.75 was collected through the office of the Captain of the Port at Cristobal and \$13,900 at Balboa.

STATEMENT OF OPERATIONS.

Details of the business transacted at the Atlantic and Pacific terminals of the Canal are shown in the following tabulation:

ltem.	Cristobal.	Balboa.	Total.
Commercial ships making transit of Canal. Net to nage of commercial ships. P. C. measurement United State equivalent net tonnage of commercial ships. Registered gross tonnage of commercial ships. Registered net tonnage of commercial ships. Cargo through Canal in commercial ships, tons of 2,240 pounds Deck load cargo, included in above. Mationality of commercial ships through Canal:	88 314.512 260.545 402.170 256.692 362.313 1,211	100 271,599 236,039 355,673 231,119 353,411 6,717	188 586,111 496,594 757,843 487,811 715,724 7,928
Britsh Norwegian Chilean Peruvian Japanese French Swedish Dutch Italian United States	37 3 2 9 0 2 2 1 29	25 7 4 2 1 1	62 10 7 4 10 1 2 2 2 1 89
To':1 Panama Canal net tonnage of commercial ships through the Canal: British Norwegian. Chilean Peruvian. Japanese. French. Swedish Dutch. Italian United States.	88 149.137 14.288 8.055 5.459 40.770 7.980 10.206 4.266 74.351	100 76,369 20,949 11,088 5,005 4,037 1,670	188 225,506 35,237 19,143 10,464 44,807 1,670 7,980 10,206 4,266 226,832
Total. United States equivalent net tonnage of commercial ships, through the Canal: British Norwegian Chilean Peruvian Japanese French Swedish Dutch Italian. United States	314,512 121,684 12,281 5,112 3,579 36,408 6 071 9,378 3,981 62,051 260,545	271,599 65,170 17,726 7,075 3,351 3,472 1,566	586,111 186,854 30,007 12,187 6,930 39,880 1,566 6,071 9,378 3,981 199,730 496,584

Item.	Cristobal.	Balboa.	Total.
Registered gross tonnage of commercial ships through the Canal:			
British	187,725 19,130 9,078	94,431	282,156
Norwegian	19,130	26,881	282,156 46,011
Chilean Peruvian	9,078	94,431 26,881 12,894 7,917	21,972 15,982
Japanese	52,477	4,557 2,705	57,034
French.		2,705	57,034 2,705 8,726
Swedish. Dutch	8,726 12,817 5,663 98,489		8,726 12,817
Italian	5,663		5,663
United States	98,489	206,288	304,777
TotalRegistered net tonnage of commercial ships, through the Canal:	402,170	355,673	757,843
British	118,770	59,759	170 590
Norwegian	12,023	17,199 7,793 2,941	178,529 29,222
Chilean	5,503	7,793	29,222 13,296 8,528
Peruvian	4,587	2,941 3,247	8,528
French	35,451	1,646	38,698 1,646
Swedish	6,848		6,848
Dutch	8,137		8,137
Italian United States.	3,458 61,915	137,534	3,458
			199,499
TotalCargo carried by ships of various nationalities:	256,692	231,119	487,811
British	153,841	84,494 29,766 6,406	238,335
Norwegian	18,261	29,766	238,335 48,027
Chilean. Peruvian.	2,093	5,109	8,499
Japanese	18,261 2,093 2,516 65,595	4.870	7,625 70,465
French		4,870 2,329	2,329
Swedish	1,434		1,434
Dutch Italian	14,060 700		14,060
United States.	103,813	220,437	324,250
Total	362,313	353,411	715,724
Vessels passing through the Canal free of tolls:			
U. S. Navy battleships	2		2
U. S. Navy cruisers	2 2	1	3
U. S. Navy destroyers.	9		9
U. S. Navy colliers U. S. Navy supply ships	3 5	***********	3
U. S. Navy subchaser.	ĭ	1	3 9 3 6 2 1
U. S. Navy submarine U. S. Navy sub-tender	1		1
U. S. Navy sub-tender	Į.		1
U. S. Navy mine-planter U. S. Navy mine-sweepers	2		1 2
U. S. Navy tug and target	1		ī
U. S. Army tugs	2		2
U. S. Army transport.	1		1
Total	31	3	34
Launches	1		1
Net tonnage of launches. Panama Canal measurement	119	103	222
Total vessels transiting Canal	120	103	223
Total ocean-going ships transiting Canal Total vessels transiting Canal Cargo on which no tolls were charged.	39,922		39,922
Commercial ships through Canal without cargo, but not in ballast	3		, 3
Net tonnage of above, Canal measurement	26,699	6	26,699 12
argo on which no tons were charged. Dommercial ships through Canal without cargo, but not in ballast. Net tonnage of above, Canal measurement Dommercial ships through Canal in ballast. Net tonnage of above, Canal measurement.	10,237	21,667	31,904
Net toppage of above. Canal measurement.	36,936	21,667	58,603
Motor ships through Canal Net tonnage of motor ships, Canal measurement	8,966	8	14
Sailing ships through the Canal. Net tennage of sailing ships, Canal measurement. Polls levied on laden ships through the Canal.	0,000	7,739 4	16,696 4
Net tennage of sailing ships, Canal measurement	0014 100 17	6.162	6,162 \$584,024 60
Tolls levied on laden ships through the Canal,	\$314,196 15 7,370.64	\$269,828.45	
Tolls on launches.	1.20	15,796.92 3.60	23,167.56
Supplemental payments, previous passages	1,250.00	1.000.00	2,250.00
Total tolls levied	322,817.99	\$286,628.97	\$609,446.96
Fotal ships entering port, including Canal transit	244	228	472
Total ships clearing from port including Canal transit	237	231	468
Total ships handled.	481	459	940
Fotal ships handled,	697,624	666,984	1,364,608
Net registered tonnage of vessels clearing port	685,420	712,100	1,397,520
Total for vessels entering and clearing	1,383,044	1,379,084	2,762,128
Townson account ordering and arounds	2,000,032	2,010,003 1	2,100,120

Total Babboa Total Pagistered gross tomage of vessels entering. 1,043,104 358,853 2,001,303 Registered gross tomage of vessels entering and clearing. 2,062,108 1,091,702 2,022,800 1,091,702 2,022,800 1,091,702 2,022,800 1,091,702 2,022,800 1,091,702 2,022,800 1,091,702 2,022,800 1,091,702 2,022,800 1,091,702 2,022,800 1,091,702 2,022,800 1,091,702 2,022,800 1,091,702 2,022,800 1,091,702 2,022,800 1,091,702 2,092,800 1,091,702 2,092,800 1,091,702 2,092,800 1,091,702 2,092,800 1,091,702 2,092,800 1,092,900 1,092,				
Total registred gross tonnage of vessels clearing 1,002,055 1,001,742 2,023,800	Item.	Cristobal.	Balbea.	Total.
Vescele entering port, but not passing through Canal 05, 43 47, 276 142, 834 Net tomage of above 162, 904 49, 789 212, 633 Vessels clearing port, but not passing through Canal 86, 144 33, 985 122, 126 Ret consage of above 86, 144 33, 985 122, 126 Gross tonage of above 145, 955 42, 469 42, 469 Vessels passing through Canal, and handling passengers or cargo at port. 137, 973 34 34 Vessels passing through Canal, and handling passengers or cargo at port. 30 2.6 75, 969 205, 534 Gross tonage of above. 122, 643 88, 353 49, 578 137, 973 36 66 Gross tonage of above. 122, 543 88, 355 49, 578 137, 973 37, 131 1, 507, 251 Gross tonage of above. 122, 543 88, 355 49, 578 137, 973 37, 131 1, 507, 251 Transit cargo arriving. 1, 108 1, 107 1, 107 1, 107 1, 107 274 1, 107 274, 31, 31 1, 1, 507, 251 2, 1, 509, 202	Registered gross tonnage of vessels entering. Registered gross tonnage of vessels clearing	1,043,104 1,022,058		2,001,939 2,023,800
Nect tomage of above	Total registered gross tonnage of vessels entering and clearing		10	
Vessels clearing port, but not passing through Canal. 40 8. 48	Net tonnage of above.	95,478	47,376 49,759	142,854
Gress tonnage of above. Vessels passing through Canal, and handling passengers or cargo at port, entered. Vestels passing through Canal, and handling passengers or cargo at port, eleared. Vessels passing through Canal, and handling passengers or cargo at port, eleared. Net tonnage of above. Vessels passing through Canal, and handling passengers or cargo at port, eleared. Net tonnage of above. Net tonnag	Vessels clearing port, but not passing through Canal	40	8	48 125,129
Cress tonnare of above. 129,665 75,969 205,872 44,855 137,372 137,872	Gross tennage of above Vessels passing through Canal, and handling passengers or cargo at	145,955		188,424
Vessels passing through Canal, and handling passengers or cargo at port, eleared. 30	Net toppage of above	92,522	44,850	137,372
Net tomage of above	Gross tonnage of above Vessels passing through Canal, and handling passengers or cargo at port,			
Transit cargo arriving	Net tonnage of above	88,395	49.578	137,973
Local cargo arriving	Transit cargo arriving	787,938 764 077	751,313 743 193	1,539,251
Total local eargo handled.				
Total local and transit cargo carriving.	Local eargo shippedtons.	5,220		7,807
Total local and transit cargo cleared		31,122		
Cargo received by Receiving and Forwarding Agency of P. R. R	Total local and transit cargo arrivingtons Total local and transit cargo clearedtons	769,297	755,152 745,780	1.515.077
Total cargo handled by Receiving and Forwarding Agency of P. R. 1,434 4,337 5,771	Cargo received by Receiving and Forwarding Agency of P. R. R tons Cargo dispatched by Receiving and Forwarding Agency of P. R. R tons	44,892	8,117 3,150	86,289 48,042
P. R. R. dons 124, 498 15,604 140, 102 Cargo stevedored, included in above, tons 59,989 11,917 61,906 Commercial vessels other than P. R. R. supplied with bunker coal tons 99 15 11 11,917 61,906 Commercial vessels other than Panam Railroad tons 99 15 11 11,917 61,906 Commercial vessels other than Panam Railroad tons 99 15 11 11,917 61,906 Commercial vessels supplied with bunker coal tons 709 709 709 709 709 709 709 709 709 709	Cargo rehandled by Receiving and Forwarding Agency of P. R. R tons	1,434	4,337	5,7/1
Coal supplied to commercial vessels other than Panama Rallroad. tons	P. R	124,498		140,102
Panama Railroad vessels supplied with bunker coal	Commercial vessels other than P. R. R. supplied with bunker coal tons.	99	15	114
U. S. Navy vessels supplied with coal. Coal supplied U. S. Navy vessels. Lons. Total vessels supplied with coal Coal supplied to U. S. Army vessels. Total vessels supplied with coal Total coal furnished to vessels. Coal supplied Panama Railroad departments Total coal furnished to vessels. Coal supplied Panama Canal. Total coal furnished. Total coal furnished to vessels. Total vessels furnished commissary supplies. Total vessels furnished vessels: Sommissary sales to Canama Railroad vessels: Total vessels furnished commissary supplies. Total sales to Fanama Railroad vessels: Sommissary sales to Fanama Railroad vessels: Sommissary sales to Office to the footen of	Panama Railroad vessels supplied with bunker coaltons	6		6
U. S. Army vessels supplied with coal	U. S. Navy vessels supplied with coal	8		9,950
Total coal furnished to vessels tons	Coal supplied to U. S. Army vesselstons	95	42	137
Coal supplied Panama Railroad departments tons 195 495 Coal supplied Army, excepting vessels, tons 2,990 645 2,735 Coal supplied The Panama Canal tons 480 480 Total coal furnished. tons 46,254 6,882 53,136 Coal received during August tons 86,616 3,049 3,419 3,419 Coal received during August tons 86,616 3,000 89,616 200 Coal received during August tons 86,616 3,000 89,616 3,419 4,422 500 0,00	Total vessels supplied with coal. Total coal furnished to vesselstons	117 42,647		48,884
Coal supplied individuals and companies 480 480 480	Coal supplied Army, excepting vesselstons.	795 242		242
Coal received during August. tons 3.419 3.419 3.419 Coal on hand, September 1 tons 86,616 3.000 89,616 151 153 334 334 Water sold to ships. gals 8,191,497 4,342,500 12,533,907 Vessels dry-docked. 11 7 18 18 18 18 18 18	Coal supplied The Panama Canal	480	-	480
Coal on hand, September 1	Total coal furnishedtons.			
Water sold to ships. gals 8,191,497 4,342,500 12,353,997 Vessels dry-docked. 11 7 18 Commercial vessels furnished commissary supplies. 9 - 9 Other U. S. Government vessels furnished commissary supplies. 30 21 51 Total vessels furnished commissary supplies. 177 102 279 Commissary sales to commercial vessels: \$979.12 \$742.81 \$1,721.93 Ice. 9,770.32 4,076.20 13,846.52 Wholesale groceries. 9,770.32 4,076.20 13,846.52 Wholesale cold storage. 28,032.89 17,067.58 45,100.47 Laundry. 2,012.09 1,71 2,013.85 Total. \$43,318.85 \$24,494.72 \$67,813.57 Wholesale proceries. 1,660.97 1,660.97 1,660.97 Wholesale groceries. 1,660.97 5,033.79 5,033.79 Laundry. 582.19 582.19 582.19 Miscellaneous 652.61 652.61	Coal on hand, September 1. tons. Vessels supplied with water.	86,616 181	3,000 153	89,616
Panama Railroad vessels furnished commissary supplies 9 177 102 279	Water sold to shipsgals	8,191,497	7	18
Total vessels furnished commissary supplies 177 102 279	Panama Railroad vessels furnished commissary supplies	9		9
Commissary sales to commercial vessels: Ice.				
Wholesale groceries 9,770.32 4,076.20 13,846.52 Wholesale cold storage 28,032.80 17,067.58 45,100.47 Laundry 2,012.09 1,71 2,013.80 Miscellaneous 2,524.43 2,606.42 5,130.85 Total \$43,318.85 \$24,494.72 \$67,813.57 Commiseary sales to Panama Railroad vessels: 12 \$132.00 \$132.00 \$132.00 Wholesale groceries 1,660.97 1,660.97 1,660.97 1,660.97 5,033.79 55,033.79 55,233.79 552.19 582.19 582.19 582.19 582.19 582.19 582.10 652.61 6	Commissary sales to commercial vessels:			
Laundry. 2,012.09 1,71 2,013.80	Wholesale groceries Wholesale cold storage	9,770.32	4,076.20	13,846.52
Total	Laundry	2,012.09	1,71	2,013.80
C	Total.		\$24,494.72	
Wholesale coid storage 5,033.79 5,033.79 Laundry 582.19 582.19 Miscellaneous 652.61 652.61 Total S ,061.56 S ,061.56 Commissary sales to other Government vessels: Ice \$164.26 \$429.15 \$593.41 Wholesale groceries 6,858.46 8,376.31 15,234.77 Wholesale old storage 26,832.06 25,603.99 52,436.05 Laundry 286.68 234.19 520.87 Miscellaneous 2,213.86 816.11 3,029.97 Total \$36,355.32 \$35,459.75 \$71,815.07	lce			\$132.00 1,660.97
Miscellaneous 652-61 652-61 Total \$8,061.56 \$8,061.56 Commissary sales to other Government vessels: \$164-26 \$429.15 \$593.41 Wholesale groceries 6,858.46 8,376.31 15,234.77 Wholesale old storage 26,832.06 25,603.99 52,436.05 Laundry 286.68 234.19 520.87 Miscellaneous 2,213.86 816.11 3,029.97 Total \$36,355.32 \$35,459.75 \$71,815.07	Wholesale cold storage	5,033.79		5,033.79
Commissary sales to other Government vessels: \$164 26 \$429 .15 \$593 .41 Urbolesale groceries. 6,858 .46 8,376 .31 15,234 .77 Wholesale cold storage. 26,832 .06 25,603 .99 52,436 .05 Laundry. 286.68 234 .19 520 .87 Miscellaneous 2,213 .86 816 .11 3,029 .97 Total. \$36,355.32 \$35,459.75 \$71,815 .07	Miscellaneous	652.61		652.61
Wholesale proceries. 6,858.46 8,376.31 15,234.77 Wholesale cold storage. 26,832.06 25,603.99 52,436.05 Laundry. 286.68 234.19 520.87 Miscellaneous. 2,213.86 816.11 3,029.97 Total. \$36,355.32 \$35,459.75 \$71,815.07	Commissary sales to other Government vessels:			
Laundry. 286.68 234.19 520.87 Miscellaneous. 2,213.86 816.11 3,029.97 Total. \$36,355.32 \$35,459.75 \$71,815.07	Wholesale groceries.	6,858.46	8,376.31	15,234.77
Total	Laundry	286.68	234.19	520.87
	·			

Item.	Cristobal.	Balboa.	Total.
Fuel oil issued to U. S. Navy. barrels. Fuel oil issued to U. S. Army barrels. Fuel oil issued to Canal departments barrels. Other sales, issues, and consumption at plant barrels.	210 51 310 69 7,798 82 97 00	4,127.76 15,762.54 279.08	4,338.27 310.60 23,561.36 376.08
Total furnished from Canal tanks. barrels. Fuel oil on hand September 1 barrels Other oil pumped barrels Diesel oil sold during month barrels	8,416.93 24,143.59 233,234.93	20,169.38 98,532.45 14,594.30	28,586.31 122,676.04 247,829.23
Diesel oil on hand September 1 barrels. Passengers arriving, including transit passengers: First cabin. Other than first cabin.	3,410 3,100	1,516.21 1,547 3,061	1,516.21 4,957 6,161
Total Total passengers departing including transit passengers:		4,608	11,118
First cabin Other than first cabin	2,930 3,626	1,542 3,112	4,472 6,738
Total	6 556	4.654	11,210
Total movement of passengers	13,066	9,262	22,328
First cabin. Other than first cabin	1.987 986	190 49	2,177 1,035
Total	2,973	239	3,212
First cabin Other than first cabin	2,004 943	185 190	2,189 1,043
Total	2,947	285	3,232
Seat en shipped. Seamen paid off. Seamen deserted.	169	106 60 3	383 229 6
Seamen deceased. Seamen lodged, subsisted, and repatriated	30	1	30
Total seamen handled. Seamen's wages received Seamen's wages disbursed Seamen's wages on hand, August 31. Services to American vessels:	\$4,743.10 \$3,738.16 \$12,749.98	\$2 034 45 \$2,065 08 \$3,499.53	\$6.777.55 \$5,803 24 \$16,249.51
Crews shipped Crews paid off Shipping articles written Marine notes of protest noted Oath, change of Master.	2 3 2 13 2	6 6	2 3 8 19 2

LOCK OPERATIONS.

Lockages of commercial vessels were made during the month as follows:

	Number of lockages.			Number of vessels.		
	North.	South.	Total.	North.	South.	Total
Gatun Pedro Miguel. Miraflores.	95 99 92	86 90 85	181 189 177	101 100 100	90 90 90	191 190 190

Army and Navy vessels, and vessels operated by The Panama Canal are included in the following summary of all lockages during the month:

Lockages.	Gatun.	Pedro Miguel.	Miraflores.
Commercial lockages	181 21 5	189 22 18	177 21 19
Total	207	229	217
Vessels: Commercial vessels	191 61	199 76	190 74
Total	252	266	264

Water consumed for all lockages amounted to 1,570,880,000 cubic feet, that used at Pedro Miguel becoming available for second use at Miraflores Locks.

Consumption of water during the month was as follows:

		Cubic feet.	
	Gatun.	Pedro Miguel.	Miraflores.
Lockage. Leakage. Maintenance.	20,000,000	722,020,000 28,980,000 3,810,000	652,910,000 14,000,000
Total	878,860,000	754,810,000	666,910,000

METEOROLOGY.

Rainfall during the month was generally deficient, especially on the Atlantic side. The fall at Colon, 6.77 inches, was the least August precipitation at that station The greatest monthly fall was at Indio, totaling 18.84 inches, and the minimum was at Miraflores, 4.02 inches. The greatest precipitation recorded in 24 hours was 4.78 inches, at Porto Bello on the 14th.

A slight seismic disturbance was recorded at Balboa Heights on the evening of August 18, which although of slight amplitude, was felt by a number of people in Ancon and Balboa. The epicenter of this disturbance was about 100 miles distant. The epicenter of this disturbance was about 100 miles distant,

probably to the south.

The Chagres River discharge at Alhajuela was 31 per cent below the 18-year August average, or 2,049 c. f. s. against a mean of 2,986 c. f. s. The Chagres furnished 40 per cent of the Gatun Lake total yield. There was one freshet in the Chagres River during the month with a rise of more than 5 feet at Alhajuela.

The elevation of Gatun Lake on August 31, was 85.29, as compared with 85.26

at the end of the prior month.

A severe electric storm occurred on the Atlantic side on August 5, during which an observation balloon at Coco Solo was burned and the mess hall was struck and slightly damaged.

ELECTRICAL DIVISION.

Gatun hydroelectric station—The net output of the hydroelectric station for the month of August was 5,332,123 K. W. H., and the computed water consumption was 4,043,885,000 cubic feet.

Miraflores steam plant—The net output of the steam plant was minus 187,950

K. W. H., and the oil consumption was 2,368.42 barrels.

Total power output-The total net power out put for both generating stations was 5,144,173 K. W. H., and the total amount of power distributed to feeders by substations and generating plants was 4,637,893 K. W. H., representing an energy loss of 9.84 per cent.

Transmission line—There was one interruption to transmission service during the month. Line No. 1 failed at 12.25 p. m., on the 2d, from unknown cause, interrupting service at Cristobal 1 minute, Darien 8 minutes, Gamboa 2 minutes, and Balboa 2

minutes.

Marine work—Repairs and additions of electrical equipment were made at Cristobal on the following vessels, under 22 work orders: Steamships Middlebury, Urubamba, Kineo, Carrillo, Colon, Caribbean, Advance, Mono, Jamaica, Panama, Nemesis, Paraiso, and City of Para; tug Engineer and dredge Paraiso. The work in progress on the steamships Middlebury and Caribbean of the Panama Railroad Steamship Line advanced to 95 and 65 per cent of completion, respectively. At Balboa, electrical work was done on the following vessels: Anubis, Cristobal, Azov, Snetind, Fort Sill, Santa Elena, Ossining, Acuelo, Mario de Ronde, Brookside, Mount Shasta, Chipchung, Bushrod, Pakeha, Eyota, Fort Seward, Belding, Charles Nelson, Buhisan, Grayling, Afalkey, Lake Sanford, Guardian, Orotina, Cow Boy, Ainwell, Tuckanuck, submarine C-4, U. S. S. Cleveland, Melville, Rhode Island, tugs Bolivar and Empire, dredge Cascadas, and barges No. 13 and No. 29.

New construction—The installation of lighting in the new cold storage plant at Cristobal was completed during the month, and the installation of the electrical equipment there advanced to 96 percent of completion.

equipment there advanced to 96 per cent of completion. Installation in the slaughterhouse adjoining remains 95 per cent complete. Electrical work at Pier 6, Cristobal,

was 80 per cent complete at the end of the month.

SHOPS, FOUNDRY, AND DRY DOCK WORK.

The repairs to the ex-German vessel Anubis were continued. The two main engine cylinders were received from the United States and completely machined, ready to be erected in place, at the end of the month. Nearly all the machinery to be received from the United States had been received or was en route and it is expected that the vessel will be completed and turned over to the Shipping Board by the end of September.

Definite instructions were received to convert the steamship *Cristobal* from coal to oil burning and to enlarge her passenger accommodations. Details remain still to be settled but the situation was unlocked to such an extent by the two decisions noted that the work may now be expected to proceed rapidly.

Repairs and general overhauling of the steamship Azov were completed, except

for the finishing touches and the trial of the vessel's machinery.

At the beginning of the month the U. S. S. Cleveland was being repaired at the Balboa shops, subject to the provision that the ship must not be disabled to such an extent that she could not be ready for sea upon 48 hours' notice. Such notice was given on Saturday, August 9, at an hour when most of the employees might be expected to be out of reach of the telephone on account of the more or less general custom of seeking amusement away from home on Saturday night. This was the most difficult time that could be found to call in extra men and finish up work on a ship to meet departure on short notice; nevertheless, all unfinished work was completed well within the time set for the departure of the vessel.

The U. S. S. Melville was towed to the Balboa shops, arriving August 16, in a disabled condition; both of her boilers having been burnt out at sea. New boiler tubes were secured from the cruiser Charleston and the defective tubes in the boilers of the Melville were replaced and tested to Navy requirements. After departure the vessel returned from the Pacific because the boilers again showed signs of failure. The Navy Department thereupon decided to modify her furnaces and oil burning system. At the end of August the vessel was still moored before the shops waiting the arrival of the modified furnace fronts and oil-burning system which are being sent from

the United States to be installed by the Mechanical Division.

During the month the battleship *Rhode Island*, which had passed through the Canal with the Pacific Fleet, put back to Balboa with the starboard propeller shaft disabled. The vessel was docked on August 11, and it was found that the outside shaft coupling had broken, allowing the propeller and propeller shaft to come aft in the strut until brought up by the remnants of the coupling. The propeller shaft was bent; the strut torn loose, top and bottom, a hole punched in the shell of the ship in one of the after compartments, and the after peak tank and steering engine room were flooded where the strut fastenings had torn loose. The wreckage was removed, the hole in the shell closed and the strut reriveted. A new propeller shaft and coupling were machined from rough machined spares carried on board. Meanwhile, the stern tube was removed from the ship after considerable difficulty; and after removal was found to be cracked. There being no spare on board and no billet on the Isthmus of sufficient size or quality for the manufacture of a new shaft, the vessel was ordered North under one engine by the Navy Department for repairs. Accordingly, she was redocked, made secure for the voyage and the parts gotten out at Balboa placed on board.

A new feed line was supplied the cruiser Salem, and a quantity of work was per-

formed on her boilers.

Minor repairs were made to minesweepers Tern and Brant.

The heavy operating repairs in progress at the beginning of the month on steamships Fort Sill, Ossining, Santa Elena, and Aculeo were completed during the month and a large amount of miscellaneous commercial work was performed for various vessels.

At the Cristobal shops the following vessels arrived for repairs: Caribbean, Oraton, Urubamba, Culebra, Orator, Brookside, Afalkey, General Goethals, Balboa, Balsto, Palena, Republic, Paraiso, Cauca, tug Sea Rover, General Ernst, Salvador, Finisterre, Kineo, Jamaica, Aculbia, Acajutla, A.G. Forse, Lake Wilson, Gold Shell, Panama, Guatemala, Metapan, Cranenest, Abangarez, Allianca, Manavi, Middlebury, San Giorgio I, Colon, Benoni, Advance, Aberdeen, Chile, West Isley, Deer Lodge, Nemesis, Antera, City of Melbourne, Peru, Ucayali, Chiquimula, tug Porto Bello, tug Tavernilla, barge No. 49, barge No. 17, U. S. S. Brutus, Fort Bragg, San Blas, Bologna, G. W. Elder, Castle Point, C. W. Fields, City of Para, Braeburn, Champlain, derrick barge No. 157, and transport Kilpatrick.

Of the above the following were in dry dock during the month: Barge No. 17, steamships Caribbean, Jamaica, Manavi, Nemesis, Paraiso, San Blas, motorboat Orolina, tug A. G. Forse, cable ship Cyrus W. Fields, and derrick barge No. 157.

At the Cristobal shops 199 individual and company job orders were issued during the month, 6 of which were for work on Navy craft, none for submarines. Of the remaining 183, 86 covered repairs to ships making this port or in transit of the Canal, exclusive of Panama Railroad ships. The work of overhauling the steamship Culebra, prior to turning her over to the Dredging Division, was continued during the month. The work of converting the steamship Middlebury into a cattle carrier was completed during the month.

Work was performed at the Balboa shops during the month for the following ves-Work was performed at the Bailou shops during the month for the following vessels: Steamers Brookside, Aculeo, Ossining, Azov, Anubis, Cristobal, Salvador, Acajutla, Chipchung, West Islay, Bushrod, Eyota, Sherman, Pakeha, Fort Seward, Helding, Lompoc, Buhisan, Grayling, Crabtree, Afalkey, La Habra, Braeburn, Lake Sanford, Aimwell, Cow Boy, War Culumn, Tuckanuck, Cauca, cable ship Guardian, U. S. S. Melville, U. S. S. Cleveland, U. S. S. Rhode Island, U. S. S. Salem, U. S. S. Tern, U. S. S. Brant, motorships Marie de Ronde, Santa Elena, Pauline, Mount Shasta, Ursting, Maranga, Chiriqui, and Statind schoops Fallatind, and steamer schools. Orotina, Maranon, Chiriqui, and Snetind, schooner Falkelind, and steam schooner Chas. Nelson.

The following vessels were in dry dock at Balboa during the month: Steamships Cristobal, Azov, Anubis, U. S. S. Rhode Island, cable ship Guardian, tugs Cocoli and

Bolivar.

Foundry output, compared with that of July, was as follows:

	August.	July.
Iron Steel Brass	34,860	45,070

Equipment was hostled as follows: Locomotives, 1,603; cranes, 196; making a total of 1,799. Two hundred and ninety-eight shop and 1,575 field repairs were made on cars, 759 freight cars were packed, and 2,053 passenger coaches were packed, cleaned, oiled, and inspected.

BUILDING CONSTRUCTION.

Assembling of the towers and material for the Puerto Obaldia radio station was completed during the month, and on August 28, the entire outfit was transported to Puerto Obaldia.

Installation of offal room equipment at the abattoir was completed during the month. Oleo equipment was brought to 95 per cent and the lard equipment to 90

per cent of completion.

The canning plant building at Mount Hope was completed, except for the installa-

tion of an elevator.

The boiler house and exterior steam lines of the Mount Hope cold storage plant were completed during the month. The machine shop was 87 per cent completed, and the carpenter shop 90 per cent completed.

Of the ten 12-family quarters at Mount Hope, 8 buildings were completed and the

other 2 were completed except for painting.

The office building of the Central and South American Telegraph Company at Balboa was 40 per cent completed.

The tuberculosis ward of Corozal Hospital remains 80 per cent completed. The office for the Lighthouse Subdivision at Gatun was 90 per cent completed.

Terminal construction—The status of the work under way at Pier 6, Cristobal, is as follows: Doors, 99 per cent; cranes, 5 per cent; and trimming work, 100 per cent completed. The pier is now practically completed except for installation of cargohandling cranes and putting on finish wash on outside walls.

Reconstruction of the Royal Mail pier at Colon was started during the month. Plant was assembled and one section of floor slab was brought to 10 per cent com-

pletion.

DREDGING DIVISION.

The total excavation by dredges during August was 367,150 cubic yards, as follows:

Cubic yards.	Classif		Character of work.	Stations.	Equipment.		
	Darti.	HOCK.	OI WOLK.				
24,800 (a)			Maintenance . {	2289-00 to 2300-60 W. \ 2186-00 to 2174-50 W. \ \	No. 88.		
122,000 (a)	122,000		Maintenance	2218-00 to 2221-25 E	NO. 84.		
5,550 (b)	1,050	4,500	Aux. Const		Paraiso.		
10,500 (b)	2,650	7,850	Aux. Const				
38,700 (b)	14,700	24,000	Aux. Const	Area No. 10, Cristobal	Paraiso.		
26,400 (b)	10,600	15.800	Aux. Const	Area No. 11, Cristobal	Paraiso.		
58,000 (c)	58,000		Maintenance				
81,200 (c)	81,200		Maintenance				
367,150	315,000	52,150	Total for month				

(a) Paeific entrance. (b) Atlantic entrance. (c) Balboa inner harbor.

The following disposition was made of the excavated material: Thirty thousand five hundred cubic yards were dumped in San Juan fill; 116,300 cubic yards in Pacific entrance flats, west of channel; 58,000 cubic yards from the Pacific entrance at sea; 81,200 cubic yards in Diablo Dump "A"; and 81,150 cubic yards in between land end of the East breakwater and Margarita Point.

The excavation remaining to be done in the Canal prism on September 1, was 173,200 cubic yards, the same as stated for August 1, in my report for July, no original excavation within the prism having been performed during August.

During the month forces of the Dredging Division made borings on the area selected

for a proposed ferry landing near Mindi.

MUNICIPAL DIVISION.

The road to the cold storage plant at Mount Hope was completed in August; 14,103 square yards of road and 1,414 linear feet of curb were concreted during the month. The extension of the road to Pier 6 at Cristobal was also completed. The renewal of the cast iron discharge line from the sewage sump in Colon is held up indefinitely, pending availability of necessary material. Work in Block 29, Colon, was completed during the month. Work of grading and filling the new townsite at Mount Hope for silver employees, was advanced to 40 per cent of completion, 7,480 cubic yards having been excavated and filled and 1,510 square yards graded. On the circulating water system for the cold storage plant at Mount Hope, 1,993 cubic yards were excavated, 942 cubic yards backfilled, and 415 linear feet of 20-inch dredge pipe were laid; this work is 65 per cent completed. Reversing the sewer grades in 16th, 17th, 19th, and 20th streets, Panama, was brought to completion during August.

This division did extensive work in grading and filling and the construction of track, sewers, and water lines at the Army posts at Gatun and Miraflores, of which

separate report has been made.

Water pumped in the southern district amounted to 617,943,000 gallons, and in the northern district to 207,402,000 gallons, making a total of 825,345,000 gallons. This was an increase of 37,490,500 gallons over the quantity pumped in July. Colon was furnished with 46,107,055 gallons of water, Panama with 86,101,000 gallons and 12,533,997 gallons were supplied to 334 ships. The incinerator at Gavilan Island burned 2,059 tons of garbage and 53 dead animals during the month.

WORKING FORCE. Effective August 20, 1919.

Department or Division.	Gold.	Silver.	Total.
Operation and Maintenance:			
Office		42	80
Building Division	272	1,790	2,062
Electrical Division.	270	347	617
Municipal Engineering Division.	125	2,635	2,760
Lock Operation	162	557	719
Dredging Division	147	829	976
Mechanical Division.	963	1,830	2,793
Marine Division	135	362	497
Fortifications	62	282	344
Total	2,174	8,647	10,848
Supply Department:			
Quartermaster	147	1,735	1,900
Subsistence	28	412	440
Commissary	247	1,550	1,797
Cattle Industry—Plantations.	34	716	750
Accounting	228	12	240
Health.	241	1,155	1,396
Executive	493	181	674
Panama Railroad:			#0 0
Superintendent	64	528	592
Transportation	163	282	445
Receiving and Forwarding Agent.	88	1,722	1,810
Coaling Station	87	795	882
Hotel Washington	5	99	104
Grand total	.3,999	17,879	21 .878

The total gold force at work on August 20 was 366 more than the 3,633 at work on July 23, and the silver force was 189 more than the 17,690 then at work. As compared with the gold force for the corresponding month of last year, reported as of August 21, 1918, the gold force was an increase of 1,114 over the 2,850 at work on that date, and the silver force an increase of 1,653 over the 16,226 of that day.

The occupation of quarters on August 31, was as follows:

Occupants.	Men.	Women.	Children.	Total.
Americans. Europeans. West Indians	206	2,118 39 2,000	2,515 66 3,813	8,102 311 11,178
Total	9,040	4,157	6,394	19,591

PUBLIC HEALTH.

One hundred and twenty-six cases of malaria were admitted to the Canal Zone hospitals; 1 death resulted from malaria, as compared with 262 admissions and 2 deaths during the month of July. Influenza admissions numbered 20, as compared with 37 during the preceding month. There were no deaths from influenza. There were 6 admissions and 5 deaths from pneumonia, as compared with 6 admissions and 1 death during the preceding month. One case of yellow fever was received at quarantine from Nicaragua. The patient died on the day of admission. One case of smallpox from the interior of the Republic of Panama was admitted to Ancon Hos-

RECEIPTS AND SALES OF MATERIAL AND SUPPLIES.

The value of material received during the month on United States requisitions was \$525,760.57, as compared with \$439,572.67 in July. Of that received in August, \$480,885.92 was chargeable to operation and maintenance; \$19,475.72 to construction and equipment; and \$25,398.93 to miscellaneous departments. Isthmian cash sales from storehouses and obsolete store amounted to \$46,463.69, of which \$40,928.67 was for stock, \$1,458.20 for scrap, and \$4,076.82 for obsolete and second-hand ma-The more important sales made during the month in the United States were as follows: Dredge spare parts, \$1,457.76; 6 pairs of skid chains, \$67.20; 6 pairs of nonskid chains, \$31.98. On the Isthmus, important sales of obsolete material included a 20-ton locomotive crane for \$2,500; 20 tons of rail for \$600; 48,200 pounds of scrap iron for \$482; 2½ K. W. generator for \$300; a steel barge for \$150; and the hull of clapet No. 4, for \$150.

The total sales of material from storehouses to steamships for the month, including fuel oil, but excluding sales by the Commissary Division, amounting to \$147,690.20, were \$25,782.84. Sales of commissary supplies to all purchasers for the month aggregated \$1,020,270.16, made up as follows: To steamships, other than United States Naval vessels and those of the Panama Railroad Steamship Line, \$67,813.57; to Panama Railroad vessels, \$8,061.56; to The Panama Canal, \$130,527.07; to the United States Government, including sales to the Army and Navy, \$228,418.77; to individuals and companies, principally through charge accounts in the retail stores, \$17,312.26; to the Panama Railroad including the Hotel Washington, \$20,764.19; and to individuals purchasing with coupons, \$547,372.74.

FINANCIAL RECEIPTS AND EXPENDITURES.

The cash balance in Canal appropriations on August 31, exclusive of fortifications, was \$16,369,782.27; the balance in fortifications was \$7,703,480.67. Payments from appropriations by Disbursing Clerk in Washington, amounted to \$515,856.07 and by the Paymaster on the Isthmus to \$1,444,506.25. Purchases of commissary books from the Panama Railroad Company amounted to \$322,070.49. Collections of tolls totaled \$608,196.96. Deposits of \$230,358.40 were made with the Assistant Treasurer of the United States to be applied on payment of tolls and other charges against **vessels using the Canal. The total Panama Canal collections on the Isthmus were \$1,767.094.59, and collections by the Disbursing Clerk, Washington, \$83,627.03. Receipts from the Canal Zone and miscellaneous funds were \$133,895.06, and disbursements from the same source amounted to \$181,194.71. August pay rolls on the Isthmus aggregated \$1,229,398.32, as compared with \$1,225,661.93 for July, a difference of \$3,736.39.

Respectfully,

CHESTER HARDING, Governor.

The "Culebra" to Return to Dredging.

The steamship Culebra, which has been used by the Panama Railroad Steamship Line for carrying cattle and other live stock from Colombian ports to the Canal Zone for the Cattle Industry Division, is being readjusted at Cristobal shops for service in its original capacity of seagoing suction dredge and is to be returned to the Dredging Division. The dredge will be used in maintenance work, principally for the removal of silt, and will range through all sections of the Canal as needed. The steamship Middlebury has been chartered from the United States Shipping Board and placed in service in the place of the Culebra, and the Caribbean, former suction dredge, sister ship of the Culebra, and the first of the cattle carriers of the Cattle Industry Division, remains in the cattle service with the Middlebury.

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight, September 27, 1919.

THROUGH THE CANAL -ATLANTIC TO PACIFIC.

anal	. 1	Net	70₹	5.298	012	475	654	512	69	759	:	:	:	:	4,355	026	6,823	385		5,900	170	441	398	
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	For		Shanghai	Shanghai	San Francisco.	Valparaiso	Lyttleton	Bremerton	Buenaventura.	Guayaquil	can Francisco.	San Francisco.	San Francisco.	San Francisco.	Manila	Junin	Shanghai	Pisagua	1	Taltal	Hongkong	Kobe	Pisagna	
	From		New York	New Orleans.	Norfolk	Cristobal	New York	Norfolk	Cristobal	Cristobal	Cruantanamo	Guantanamo	Guantanamo	Guantanamo	New York	Baltimore	Beaumont	Tampico	New Castle-on	Tyne	New York	New York	Tuxpan	
Salt			27.6	25.9	28.0	25.2	$\frac{22}{2}$.10	23.0	9.6	9.41	0.11	0.1	14.7	9.11	25.0	16.0	26.0	27.6	16.4		8.72	9.92	28.0	
	3ea m		57.0	57.0	58.0	41.0	49.0	48.0	25.0	35.0	0.77	30.0	31.0	30.0	54.2	-		59.6	58.0		55.0	55.0	56.0	
	Length Beam		448.0	430.0	484.0	336.0	385.0	363.0	81.0	216.0	_	315.0	_	0				449.5	_	_	_	0	427.0	
	Line		Prince Line, Limited	United States Shipping Board British Tanker Company.	. Matson Navigation Company	South American S. S. Line	Ellerman and Wilson	Transports Maritime	Pacific Metals Corporation	Pacific Steam Navigation Co	United States Mayy	United States Navy	United States Navy	United States Navy	United States Shipping Board	American-Hawaiian Line	Standard Transportation Co	Standard Oil Company	Katsuda Kisen Kabushiki Kaisha		Netherland Steamship Co	Osaka Shosen Kaisha	Standard Oil Company	
	Nationality		British	British	American	Chilean	'				American	Атегісан	American	American	American	American	American	American	Japanese		Dutch	14.58 Japanese	American	
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THROUGH THE CANAL-PACIFIC TO ATLANTIC.

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Ainwell Usayail Usayail Iludson "C-31" Arapahoe (c) West Cayote Patena Fort Logan Margareta (d).	West Harlan. Port Darwin. Port Napier. Westport. Cresap.

(c) Sail. (d) Launeh. (e) 82,000 barrels.

PORT OF CRISTOBAL.

	For	Newport News. Port Limon. Port Limon. New York. New Orkans and wayports. New York. New York. New York. New York. New York. New York. Linded Kingdom, Newport
*DEPARTURES	Line	United States Army. Panama Rathood Commissary. Panama Rathood Commissary. United States Shinping Board. United States Shinping Board. United Fruit Company. Panama Rathood Steamship Line. Harrisou Steamship Line.
	Vessels	Northern Pacific. Middlebury. Kassala. Lake Hurst. Heredia. Buford. Carrillo. Trivives. Trivives. Trivives. Turinabla. Gen. O. H. Ernst.
	Date	Sept. 21. Sept. 23. Sept. 24. Sept. 24. Sept. 24. Sept. 21. Sept. 21. Sept. 22. Sept. 22. Sept. 25. Sept. 25.
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	From	New Orleans. New York via King, New York via King, New York and Hait Colombian ports. New York. New York.
*ARRIVALS	Line From	United Fruit Company. New York via Port Linon. New Stand Haid. Odomkian ports. New Orleans. Panama Railroad Steamship Line. New York.
*ARRIYALS		

PORT OF BALBOA.

	llao.
*DEPARTURES	Sept. 26 Joan of Are Rolph Navigation and Coal Co Callao.
	Sept. 26. Joan of Arc.
	Sept. 26
	San Francisco. San Francisco.
*ARRIVALS	Rolph Navigation and Coal Co San Francisco.
	Joan of Are
	Sept. 24 Sept. 25

*Other than ships passing through the Canal.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending September 27, 1919.

				Car	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Newport. Fairhaven Imperial Middlebury. Laura C. Hall Lake Hurst. Heredia Ucayali Palena Carrillo. Lake Wilson Turrialba Manavi Tivives Colon. Gen. O. H. Ernst. Kilpatrick	Panama Railroad Steamship Line. United Fruit Company. Peruvian Steamship Line. United Fruit Company. United Fruit Company. Panama Railroad Steamship Line. United Fruit Company. Pacific Steam Navigation Co. United Fruit Corpany. Panama Railroad Steamship Line. Panama Railroad Steamship Line. United Steats Government. United States Government.	September 22 September 22 September 23 September 24 September 24 September 24 September 25 September 25 September 25	September 22 September 24 September 24 September 24 September 24 September 25 September 25 September 25 September 26	Tons 488 847 1,199 1,211 1,642 92 1,398 1,539 2 3,000 485	720 16 45 1,971 464 1 1 146 723 1 3,895
AlliancaLogican	Panama Railroad Steamship Line Levland Line	September 27	Senter her 27	2,007½	2,421

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending September 28, 1919.

			Cargo—		;0
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Manavi	Pacific Steam Navigation Co	September 20 September 25 September 24 September 25	September 21 September 25 September 26 September 28	Tons. 98 (*) 125 206	Tons. (†) 2 (†) 125

^{*} No cargo discharged.

† No cargo laded.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such anouncements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights, (telephone 286):

Farm economist (male); No. 416-amended; October 21, 1919. The United States Civil Service Commission announces the amendment of the announcement of the open competitive examination for farm economist (announcement No. 416) by the omission of the word "extension" in the last lines of the sixth and seventh paragraphs, and by the postponement of the date by which applications must be on file with the Civil Service Commission at Washington, D. C., prior to the hour of closing business, from September 23 to October 21, 1919.

Junior computer (male and female); No. 448-amended; October 8, 1919. The United States Civil Service Commission announces that the open competitive examination for junior computer, Bureau of Mines, will be held on October 8, instead of on October 8 and 9, as stated in the original announcement (No. 448). The statement in the original announcement that "Two days will be required for this examination" is incorrect and only one day will be allowed.

Training officer (male); \$2,400 to \$3,000 a year; No. 433; form 2118; age, at least 24 years but under

years.†

Training assistant (male); \$1,500 to \$2,400 a year; No. 433; form 2118; age, at least 24 years but under 50 years. Placement officer (male); \$2,400 to \$3,000 a year; No. 433; form 2118; age, at least 24 years but

under 50 years.†

District medical officer (male); \$1,800 to \$3,000 a year; No. 433; form 2118; age, at least 25 years but under 65 years.†

Assistant medical officer (male); \$1,800 to \$2,750 a year; No. 433; form 2118; age, at least 25 years

but under 65 years.

Placement assistant (male); \$1,500 to \$2,400 a year; No. 433; form 2118; age, at least 24 but under 50 years.†

Assistant economist in marketing (male); Grade 1, \$1,800 to \$2,400; Grade 2, \$2,400 to \$3,000 a year; No. 464; November 5, 1919; form 1312; age, Grade 1, at least 22 years; Grade 2, at least 25

years. Clerk, Bureau of the Census (male and female); \$900 to \$1,029 a year; No. 461; October 18, 1919, and November 15, 1919; form 304; age, at least 18 years but under 50 years. Claims examiner (male); \$1,800 to \$2,500 a year; No. 437-amended; October 8, 1919; the requirement that applicants must not have reached their fiftieth birthday on the date of the examination is

Trained nurse (female); No. 1952-amended.
The United States Civil Service Commission announces the amendment of the maximum age requirement of the open competitive nonassembled continuous examination for trained nurse (announcement No. 1952-A), so as to provide that for the public health service, applicants must not have reached their fiftieth birthday on the date of making oath to the application, instead of that they must not have reached their

Drainage engineer (male): \$1,800 to \$2,100 a year; November 4, 1919; form 1312; age, at least 25 years but less than 45 years. Persons entitled to preference because of military or naval service are released from age requirements.*

Map colorist (male and female); \$900 a year; November 5, 1919; form 1312; age, at least 18 years, but less than 40 years. Persons entitled to preference because of military or naval service are released

Forest ranger (male); \$900 to \$1,200; October 27, 1919; form 1312; age, at least 21 years but less an 40 years. Persons entitled to preference because of military or naval service are released from age

requirements.

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

tNonassembled. Applications will be received at any time until further notice.

The United States Civil Service Commission announces that as sufficient eligibles to meet the needs of the service have been obtained from the open competitive nonassembled continuous examinations. listed below, until further notice no applications for these examinations will be accepted unless filed with the Commission at Washington, D. C., prior to the hour of closing business on September 23, 1919, (Issued September 5, 1919). No. 3?1, Assistant in marketing dairy products. Grade 1, \$1,800 to \$2,400; No. 570 Inspector of dairy products, \$1,800 to \$2,400 a year; No. 596, assistant to transportation, Grade 1, \$1,800 to \$2,700 a year.

Membership in Canal Clubhouses Discontinued.

The Governor has authorized the discontinuance of memberships in the Panama Canal clubhouses, effective September 1, 1919. All members may have the balance due them on that date refunded, if the request is made to the local secretary in writing, and is accompanied by unexpired membership card. Request for refund should be made as soon as convenient.

Wind Storm at Gamboa.

The Chief Hydrographer has made the following report of a severe wind storm which visited the vicinity of Gamboa, near the north end of Gaillard Cut, on September 26. Salvaging operations on the gravel cranes were begun by the Dredging Division on September 29:

A wind storm of unusual severity occurred at Gamboa shortly after noon on September 26, 1919. The storm moved down the Chagres River arm of Gatun Lake

from the northeast and was accompanied by heavy rainfall.

The high winds at Gamboa continued for only 21 minutes, from 12.29 p. m. to 12.50 p. m. During this time the wind shifted from northwest to north, northeast, east and southeast, but nearly all of the strongest winds blew from the northeast.

The maximum velocity recorded at the Gamboa station was 50 miles an hour from the northeast at 12.45 p. m. It is thought that the center of the storm passed over a depression in the ridge and across the Canal about midway between the Gamboa hydrographic station and the Gamboa signal station, and that there the wind velocities were considerably higher. A tree 15 to 18 inches in diameter of vigorous growth was broken off clean, indicating a maximum wind velocity of 70 or more miles per

The path of destructive winds was relatively narrow, approximately 1/4 mile in width, and it is thought that the storm soon spent itself as no damage was reported except in the vicinity of Gamboa.

The two unloading cranes at the Gamboa gravel plant were overturned and wrecked

causing damage estimated at about \$20,000.

A silver quarters building at Gamboa was partly unroofed, the monitor on the Marine Division signal station was torn off, and three buildings were similarly damaged at the Gamboa stockade. Most of the buildings damaged were old French buildings in a state of partial decay. Except for the signal station no new buildings at Gamboa were materially damaged. Nearly all fruit trees were considerably dam-

aged in the storm path.

Storms of this type have a gyratory or whirlwind motion and resemble in many respects the destructive tornadoes (miscalled cyclones) that visit mid-western, central, and eastern sections of the United States, but tornadoes in the States are of far greater violence than the most destructive storms that occur on the Isthmus. A storm of similar type occurred in the vicinity of Gamboa on May 14, 1912, during which the high winds did considerable damage at Matachin, and at Bas Obispo. No automatic record of the wind velocity was obtained, but from the damage done the maximum wind velocity was estimated at 60 miles an hour.

Official Circulars.

Appointment.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., September 26, 1919. CIRCULAR No. 661-79:

Mr. Thomas L. Clear is hereby reinstated as Collector of The Panama Canal, effective September 20,1919, vice Mr. Elwood P. Sine, resigned.

CHESTER HARDING.

Governor.

Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT,

BALBOA HEIGHTS, C. Z., September 8, 1919.

CIRCULAR No. 213:

Effective as of August 19, 1919, Mr. Stanley R. Ford, district quartermaster, is designated an accountable official, vice Mr. Charles P. Morgan, and as such will account for all nonexpendable property charged to the district quartermaster at Gatun, and for all storehouse stock under his charge.

> Н. А. А. Ѕмітн, Auditor, The Panama Canal.

Approved: CHESTER HARDING,

Governor.

Annual Reports.

THE PANAMA CANAL, EXECUTIVE OFFICE

Balboa Heights, C. Z., September 22, 1919. To all concerned—In order to facilitate the preparation, handling and mailing of future anpreparation, nanding and mailing of tuture annual reports of the Governor to the Secretary of War, it is directed that all duplicate, triplicate and quadruplicate copies of the annual reports of all heads of Departments and Divisions of The Panama Canal to the Governor shall be turned in to the Correspondence Bureau, the originals thereof being sent direct to the Governor, and that all details connected with the handling and that all details connected with the handling of this yearly report shall be centered in the Correspondence Bureau instead of the Bureau of Statistics, as heretofore.

Statistics, as heretofore.

The stenographer in the Correspondence Bureau selected by the Governor to prepare his report to the Secretary of War shall be charged with the responsibility of all details in connection with the handling of this yearly report, such as corrections to be made in departmental and divisional reports subsequent to their submission, the collection of all photographs, charts and diagrams to accompany the Governor's report, etc.

C. A. MCILVAINE, Executive Secretary.

Approved: CHESTER HARDING, Governor.

Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT,

BALBOA HEIGHTS, C. Z., September 22, 1919.

CIRCULAR No. 214:

Governor.

Effective September 12, 1919, Mr. John G. Fels is designated an accountable official of The Panama Canal, vice Capt. Frederick Kariger, and as such will account for all nonexpendable property in use by the Lighthouse Sub-Division.

Н. А. А. Ѕмітн,

Auditor, The Panama Canal. Approved: CHESTER HARDING,

Appointments.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT

BALBOA HEIGHTS, C. Z., September 29, 1919. To all concerned-Effective September 6, 1919,

the following appointments are made:
Mr. Wilson H. Kromer, Chief Accountant,
Mr. Frank Bruk, Railroad Accountant,
Mr. Malcolm L. Duff, Assistant Railroad Ac-

countant. Those having business with these branches of the Accounting Department should be governed accordingly.

H. A. A. SMITH, Auditor, The Panama Canal.

Misdirected Letters.

Balboa Heights, C. Z., September 29, 1919.

The following insufficiently addressed mail has been received in the office of the Director of Posts, and may be obtained upon request of the addressee. Requests may be made by telephone. calling No. 182, Balboa:

Alexander, Julian
Baker, Harry D.*
Beukena, Herman
Bonum, H. B.
Carey, Medos J., M. D.
Preher, Miss Evlyn
Earle, Lyon H.
Etton, Fred
Guthridge, Morton N.
Jackson, Mrs. Harold
Rufus

Jensen, A. B.
Lewis, Miss Manne
Claudius
Miller, Eugene D.
Stamatakos, Geo.
Stevens, Mrs. Janet E.†
Towler, Mrs. H. H.
Tuthill, Mrs. Maude A. Alexander, Julian Rufus

Jensen, A. B. Lewis, Miss Manne Claudius

*Special delivery. † Paper.

Sale of 2-Cylinder Buffalo Marine Gasoline Engine.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10 a. m., October 6, 1919, and then opened for the purchase of the above described engine. Engine is located at Cristobal store and will be shown to prospective purchasers store and will be shown to prospective putchasers by the storekeeper at that place any week day between the hours of 7 a. m. and 11 a. m., and 12 (noon) and 4 p. m. Bids must be accompanied by postal money order or certified check in an amount not less than 10 per cent of the bid. Bidders should make inspection of engine and satisfy themselves as to condition.

COMMISSARY NOTES.

Oysters.

The first shipment of oysters of the season, 30 barrels, was received ex the steamship Allianca, September 25, and distributed to the line stores.

Books.

Books received:

"The Magnificent Ambersons," by Booth Tarkington; "Far Away and Long Ago," by W. H. Hudson; "Modern Japan," by Amos and Susanne Hershey; "Women in American History," by Grace Humphrey; "The Yellow Lord," by Will Levington Comfort; "Labrador Days," by Wilfred Thomason Grenfell; "Abraham Lincoln," by Rose Strunsky; "Irish Fairy and Folk Tales," by W. H. Yeats; "The Four Horsemen of the Apocalypse," by Blasco Ibañez; "The Re-Creation of Brian Kent," by Harold Bell Wright.

THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

Subscription rates, domestic, \$1 00 per year; toreign, \$1.50 address The Panama Canal Record, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C. Entered as second-class matter February 6, 1918, at the Post Office

at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., October 8, 1919.

No. 8.

Distances of Various Ports from the Canal.

The Panama Canal has issued, and distributed among steamship lines and allied interests, a small single-sheet folder of distances by way of the Canal and representative reductions effected by its use. Additional copies may be had free on request to The Panama Canal, Balboa Heights, Canal Zone, or Washington, D. C.

One item in the folder is the following tabulation of distances to the nearest Canal terminal by usual routes from the representative ports named; figures are nautical miles, and the length of the Canal

is 43 nautical miles.

is 43 nautical miles:	
Montreal, Can 3,160	Ascension Island 4,212
Halifax, N. S	St. Helena Island 4,878
Portland, Me 2,198	Cape Town, Africa 6,574
Boston, Masa	Monrovia, Liberia 4.148
New York, N. Y 1,974	Freetown, Sierra Leone 3,983
Philadelphia, Pa 1,946	St. Vincent, C. V. I 3,268
Baltimore, Md 1,901	Funchal, Madeira 3,859
Norfolk, Va 1,779	Fayal, Azores 3,288
Wilmington, N. C 1,730	Gibraltar (Strait) 4,343
Charleston, S. C 1.564	Marseilles, France 5,036
Savannah, Ga 1,607	Genoa, Italy 5,203
Jacksonville, Fla 1,535	Naples, Italy 5,325
Key West, Fla 1,065	Constantinople, Turkey 6 166
Mobile, Ala 1,393	Odessa, Russia 6.509
New Orleans, La 1,403	Port Said, Egypt 6.268
Galveston, Tex 1,493	Lisbon, Portugal 4,205
Tampico, Mexico 1,485	Bordeaux, France 4,203
Tuxpan, Mexico 1,455	Havre, France 4,610
Vera Cruz, Mexico 1,420	Bishops Rock, Scilly Is 4,356
Belize, Brit. Honduras 816	Liverpool, Fingland 4,548
Puerto Barrios, Guatemala 780	Glasgow, Scotland 4,492
Truxillo, Honduras 622 Bluefields, Nicaragua 276	Plymouth, England 4,455
Port Limon, Costa Rica., 192	London, England 4,763
Bocas del Toro, Panama. 144	Antwerp, Belgium 4,808
Habana, Cuba 1,003	Amsterdam, Holland 4,832
Bernuda Islands 1,643	Hamburg, Germany 5,070
Kingston, Jamaica 551	Copenhagen, Denmark 5,350
Port au Prince, Haiti 774	Christiania, Norway 5,237
San Juan, Porto Rico 993	Stockholm, Sweden 5,897
St. Thomas, Virgin Id 1,029	Petrograd, Russia 6.282
Barbados, West Indies 1,237	Bergen, Norway 5,295
Port of Spain, Trinidad 1,159	Archangel, Russia 6,900
Curacao 699	Sitka, Alaska 4,547
Cartagena, Colombia 281	Vancouver, B. C 4,032
La Guaira, Venezuela 841	Seattle, Wash 4.021
Georgetown, Br. Guiana 1,535	Fort Townsend, Wash 3,9 5
Paramaribo, Dtch Guiana 1,648	Astoria, Oreg 3,775
Para, Brazil	Portland, Oreg 3,869
Pernambuco, Brazil 3.458	San Francisco, Cal 3.245
Rio de Janeiro, Brazil 4,349	Los Angeles, Cal 2,913
Buenos Aires, Argentina 5,450	San Diego, Cal 2,843
-	

length of the Ca	anal
Mandalan Bar Mad	0.005
Magdalena Bay, Mexico Mazatlan, Mexico	2,265
Acapulco, Mexico	1.426
Salina Cruz, Mexico	1,170
San Jose, Guatemala	886
La Union, Salvador	748
Amapala, Honduras	745
Corinto, Nicaragua	683
Puntarenas, Costa Rica	471
Pedregal, Panama	243
Buenaventura, Colombia. Guayaquil, Ecuador	356 793
Callao, Peru	1,346
Iquique Chile	1.778
Iquique, Chile Antofagasta, Chile	2,140
Valparaiso, Chile. Coronel, Chile. Punta Arenas, Chile	2,616
Coronel, Chile	2,822
Punta Arenas. Chile	3,943
Carle Horn Chile	4.260
Cape Horu, Chile	2,200
	1,200
Galapagos Islanda	
Galapagos Islands Marquesas Islands	864 3,826
Galapagos Islanda	864 3,826 4,752
Galapagos Islanda	864 3,826 4,752 4,685
Galapagos Islanda	864 3,826 4,752 4,685 5,707
Galapagos Islanda	864 3,826 4,752 4,685 5,707 7,682
Galapagos Islanda. Marquesas Islands. Christmas Island. Honolulu, Hawai. Midway Islands. Yokobama, Japan Vladiyostok Siberia.	864 3,826 4,752 4,685 5,707 7,682 7,833
Gelapagos Islands. Marquesas Islands. Christmas Island. Henolulu, Hawaii. Midway Islands. Yokobama, Japan. Vladivostok, Siberia. Shanghai, China. Hongkong, Clina.	864 3,826 4,752 4,685 5,707 7,682 7,833 8,556 9,195
Gelapagos Islands. Marquesas Islands. Christmas Island. Henolulu, Hawaii. Midway Islands. Yokobama, Japan. Vladivostok, Siberia. Shanghai, China. Hongkong, Clina.	864 3,826 4,752 4,685 5,707 7,682 7,833 8,556 9,195
Galapagos Islands. Marquesas Islands. Christmas Island. Henolulu, Hawai. Midway Islands. Yokobama, Japan. Vladivostok, Siberia. Shangbai, China. Hengkong, Chira. Manila, P. I. Manila, P. I. Singapore, S. S.	864 3,826 4,752 4,685 5,707 7,682 7,682 8,556 9,195 9,347 0,505
Galapagos Islanda. Marquesas Islands. Christmas Island. Henolulu, Hawai. Midway Islands. Yokohama, Japan. Vladivostok, Siberia. Shanghai, China. Hengkong, Chira. Manila, P. I. Singapore, S. S. J. Bata, in Jaya.	864 3,826 4,752 4,685 5,707 7,682 7,682 7,682 9,195 9,347 0,505 0,610
Galapagos Islanda. Marquesas Islands. Christmas Island. Henolulu, Hawai. Midway Islands. Yokobama, Japan. Yladivostok, Siberia. Shanghai, China. Hengkong, China. Hengkong, China. Mauila, P. L. Singapore, S. S. J. Bata, ia, Java. Port Apra, Guam.	864 3,826 4,752 4,685 5,707 7,682 7,682 7,682 9,195 9,347 0,505 0,610
Gelapagos Islands. Marquesas Islands. Christmas Island. Henolulu, Hawai. Midway Islands. Yokobama, Japan. Vladivostok, Siberia. Shanghai, China. Hengkong, China. Manila, P. I. Shangapere, S. S. Batavia, Java Port Apra, Guam.	864 3.826 4.752 4.685 5,707 7,682 7,833 8.556 9,195 9.347 0.610 7,988 7,321
Galapagos Islanda. Marquesas Islands. Christmas Island. Henolulu, Hawai. Midway Islands. Yokobama, Japan. Yladiyostok, Siberia. Shanghai, China. Hongkong, China. Manila, P. I. Singapore, S. S. J. Batavia, Java. Port Apra, Guam. Caroline Islands (Poaape) Marshail Islands	864 3,826 4,752 4,685 5,707 7,682 7,833 8,556 9,195 9,347 0,505 0,610 7,982 7,321 7,041
Gelapagos Islands. Marquesas Islands. Christmas Island. Henolulu, Hawai. Midway Islands. Yokobama, Japan Vladivostok, Siberia. Shanghai, China. Hengkong, China. Manila, P. I. Singapore, S. S. Batavia, Java Port Apra, Guam. Caroline Islands (Poaape) Marshail Islands Piji Islands (Levuks).	864 3,826 4,752 4 685 5,707 7,682 7,833 8,556 9,195 9,347 0,505 0,610 7,981 7,041 6,288
Gelapagos Islanda. Marquesas Islands. Christmas Island. Henolulu, Hawai. Midway Islands. Yokobama, Japan. Vladivostok, Siberia. Shanghai, China. Hengkong, China. Manila, P. I. Singapore, S. S. J. Batavia, Java. Port Apra, Guam. Caroline Islands (Poaape) Marshail Islands Fiji Islands (Levuka). Samoa (Apia).	864 3,826 4,752 4,685 5,707 7,682 7,833 8,556 9,195 0,505 0,610 7,988 7,321 7,041 6,288 5,710
Galapagos Islands. Marquesas Islands. Christmas Island. Henolulu, Hawai. Midway Islands. Yokobama, Japan. Vladivostok, Siberia. Shanghai, China. Hengkong, China. Hengkong, China. Manila, P. I. Singapore, S. S. Bata, ia, Java Port Apra, Guam. Caroline Islands (Poaape) Marshail Islands Yaman (Apia). Tahiti, Seciety Islands.	864 3,826 4,752 4,685 5,7682 7,533 8,556 9,195 9,347 0,505 0,610 7,988 7,321 7,041 6,288 5,710 4,486
Gelapagos Islands. Marquesas Islands. Christmas Island. Henolulu, Hawai. Midway Islands. Yokobama, Japan Yokobama, Japan Yokobama, Japan Hongkong, China. Hengkong, China. Manila, P. I. Singapore, S. S. Batavia, Java I. Port Apra, Guam. Caroline Islands (Poaape) Marshail Islands Fiji Islands (Levuka). Famoa (Apia). Tahiti, Seciety Islanda. Sydney, Australia	864 3.826 4.752 4.685 7.682 7.833 8.556 9.347 0.505 0.610 7.381 7.041 6.283 5.710 6.283 5.710 6.283 6.674
Galapagos Islands. Marquesas Islands. Christmas Island. Henolulu, Hawai. Midway Islands. Yokobama, Japan. Vladivostok, Siberia. Shanghai, China. Hengkong, China. Hengkong, China. Manila, P. I. Singapore, S. S. Bata, ia, Java Port Apra, Guam. Caroline Islands (Poaape) Marshail Islands Yaman (Apia). Tahiti, Seciety Islands.	864 3,826 4,752 4,685 5,7682 7,533 8,556 9,195 9,347 0,505 0,610 7,988 7,321 7,041 6,288 5,710 4,486

Prices of Representative Items in Cold Storage Plant.

In connection with the description of the cold storage plant and abattoir published in this issue, steamship masters and operators will be interested in the following representative prices, in effect at present but subject to change:

Beef hinds, from Colombian cattle, per pound, \$0.18\frac{3}{4}; beef fores, per pound, \$0.13\frac{3}{4}; beef ribs, entire set, per pound, \$0.20; short loins,

\$0.25; potatoes, per pound, \$0.05.

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight, October 4, 1919.

THROUGH THE CANAL --- ATLANTIC TO PACIFIC.

1	Canal	Net	11,795 2,163 4,555 1,602 1,602 1,602 1,602 1,602 1,602 1,603
	Panama Canal tonnage	Gross	1,500 2,835 1,926 3,173 1,926 3,173 9,500 7,819 0,700 6,841 1,918 2,832 0,700 1,2852 0,645 1,514 0,600 7,2852 0,000 7,2852 0,000 7,2852 0,000 7,2852 0,000 7,2852 0,000 7,2852
-	Tons		11,500 1,926 1,926 1,926 1,926 1,918 1,918 1,918 1,918 1,429
	For Cargo		General
			Guayaquil San Francisco. Valpariaso San Francisco. Yokohama Valpariaso Valpariaso San Francisco. Callino. Valpariaso. Tocopilla. Shara Zealand. Shara Zealand. Shara Zealand. Shara Zealand. Shara Zealand. Shara Zealand.
	From		New Orleans. Cristobal New York New York Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Baltimore New York Cristobal New York Cristobal London Cristobal Cristobal London Cristobal New York
2	Salt water draft		16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 17.0 17.0 17.0 17.0 18.0
Facili	Beam		26.0 27.0
7	Cength Beam		200.0 326.0 435.0 435.0 2390.0 2390.0 2390.0 2390.0 2390.0 2390.0 2390.0 2390.0 2300.0 2000.0
THEOUGH THE CANAL ALLANIC IO FACIFIC	Nationality Line		United States Shipping Board— Pacific Mail Steanship Company Union States Shipping Board— Union Oil Company Union Oil Company Union Oil Company Union Oil Company Union American Steanship Co. Pacific Mail Steanship Co. W. Wilhelmsen American Line Hinhayea Steanship Line Hinhayea Steanship Line W. Wilhelmsen W. W. Wilhelmsen W. W. Grace and Company W. Wilhelmsen New Zealand Shipping Co. S. M. Kuhnle & Son United States Army United States Army
!			American American American American American American Cibican American American Servisia British Pervisian American British American American British American American British American American American American
	Cleared for sea	moH	13.50 113.50 115.50 12.33 18.03 18.03 18.03 17.45 17.45 17.45 115.33 115.33 114.12
		Day	28
	Completed	noH	1
		VaU	000 000 000 000 000 000 000 000 000 00
	Entered Canal	TUOH	10000000000000000000000000000000000000
		Day	03554145551550 10518674175550 1051867415588 10518674188888 10518674188888
	rrived t port	moH	22 10 10 10 10 10 10 10 10 10 10 10 10 10
	A ₁	Day	
	Ship		Santa Teela Newport. Newport. Los Angeles Minnequa. Los Angeles San Jose. San Jose. San Jose. Terrier Jordon. Johkolan Johkolan Johkolan Johnic. City ol Madras. Cayali. Sania Barbara. Lea fabra. Remuera.

(a) Transport. (b) Tug, towing target No. 50.

THROUGH THE CANAL-PACIFIC TO ATLANTIC.

1,199 1,733 350 350 55,891 1,728 1,728 1,728 2,628 2,628 2,628 2,628
(h) 1,530 2,655 1734 (f) 734 (g) 734 (
Cotton seed I'm be. (Orgon I'm be. (Orgon Meat. general Orgeneral Nitrates Lumber, thes Lumber, thes Lumber General
Bristol West Hart pool Cristobal Greenoek London Cristobal Cristobal London New York Ghent, Belg. Liverpool London Cristobal Condon Cristobal
Supe Portland Buenaventura. Vancouver Newcastle Guayaquil Manila Taltal Aberdeen Balboa Valparaiso Kobe
233.3 44.5 17.6 Supe 267.5 46.4 23.6 Portlan 190.0 29.1 15.0 Buenav 450.3 55.3 27.0 Newcos 246.0 35.2 17.8 Guaya 449.5 57.3 25.0 Manila 234.0 46.2 23.0 Taltal. 295.3 46.2 21.0 Aberde 296.3 44.5 19.4 Valpar 850.3 44.6 19.4 Valpar 850.3 44.6 19.7 Kobe
233.3 267.5 190.0 197.6 197.6 246.0 449.5 324.0 295.3 296.3 296.3 350.3
Vda de Rosas Vda de Rosas Partland Cotton see United States Shippias Board 267. 5 46.4 23.6 Partland West Hart pool Fir i umber Colombian Maritime Co. Colombian Maritime Co. 190. 0 29.1 15.0 Buenaventura Greenoed Timber, Ol. Hansen Harmatison Parine Line 450.3 35.3 27.0 Neweastle London Meat, gen Parine Line Line Line Line Remeastle Cristobal General United States Shipping Board 245.0 35.2 21.0 Aberden Nitrates United States Shipping Board 295.3 46.2 22.0 Balboa London Lumber, London United States Shipping Board 294.0 45.6 22.0 Balboa London Hides, sug Nippon Yusen Kaisha 360.7 441.5 19.7 Kobe Kobe General.
16 07 30 8.55 Peruvian. 28 18.17 29 5.50 American. 29 15.05 1 6.35 Norwegian. 30 14.28 Efficient 16.30 2.55 American. 16.30 2.55 American. 17.30 5.65 American. 17.30 18.13 American. 17.46 217.33 Japanese. 214.19 2.17.33 Japanese.
30 8. 29 5. 1 6 30 12. 2 17. 2 17.
28 16.07 28 18.17 28 19.35 29 10.05 30 14.28 1 16.30 1 16.30 1 17.46 2 14.19
6.50 12.46 12.46 12.46 17.29 16.56 88.22 6.23 6.23 6.23
25 117.10 28 228 3.30 28 228 17.00 29 229 1145 29 30 6.09 30 30 11.00 11 30 11.00 11
Adela (c) Modford Balboa. 2 Balboa. 2 Gunn (d) 2 Gurer Canea. Eacher Kenoslin Brasher Bras

(c) Motor ship. (d) Sailing. (e) This vessel went northbound through the Canal on August 17 and on account of extensive repairs, returned southbound from Cristobal to Balboa is (f) Coffee, index, rubbes, etc. (g) Coooa, ivery nuts, rubber, hats. (h) 1,601,300 kilos. (i) 939,124 feet.

5,895	2,340	622	: :	1,676
,827	,804	187		. 636
6,866 9 6,621 5	806 1 4,359 3	352 1	1,873	(j)
General General Lumber	General Flour Canned nineaunles	General. Flour	Fir, ties. Fir, ties, lumber	Ties, lumber
London Liverpool London	New York.	Cristobal	Cardiff	Southhampton
0	San Francisco Kahulni	Tumaco	Aberdeen	Seattle.
0 2 27.3 0.0 23.8 6.1 21.5	5.0 22.0	3.0 26.0	8 22.0	7.1 22.0
460 7 60 390 0 50 266.0 40	20.03	020	36.2	37.5 47
	Board	1	Board Board	Shipping Board
British British. American. British	American	British	American	American
2 18.42 19.35 3 16.40	3 4 25	3 18.21	14.11	5 5.07
15.38	19.55	20.56 14.54	18.10	18.45
1256	20.00	<u> </u>	59 4	23 4
0.000	010	300	00.4 11/2	4 111
1 17.30 1 20.08 2 7 1	-30 6.28 2 9.20	222	3 8 8	-22 17.18
OrariBogota	Delfina9 Glymont	Jamaica Hatchie	Blue Eagle	Asotin

(j) 1,262,000 feet. board measure.

PORT OF CRISTOBAL.

	For	New York. New Orleans and San Juan. New Orleans and wayports. New York and Haiti. New York and Haiti. Osotom and Port Limon. Colombian ports. Cartgena. New York. Norfolk.		
*DEPARTURES	Line	United States Shipping Board. United States Army. United States Army. New Panama Railroad Steamship Line. New Janama Railroad Steamship Line. New United Fruit Company. United Fruit Company. United Fruit Company. United States Army. Oar United States Army. Oar United States Army. Nor Danama Railroad Steamship Line. Nor Panama Railroad Steamship Line.		
	Vessels	Lake Wilson. Nilpatrick. Nilpatrick. Allianca Colon. Coppenanc. Santa Marta. Slocum (k) Slocum (k) Lagenta.		
	Date	Sept. 29. Sept. 30. Oct. 2. Oct. 2. Oct. 2. Oct. 2. Oct. 3. Oct. 3.		
	From	Cartagena. Now Orleans. Now Vork and Haiti. 15 Now York and Haiti. 15 Now York Now York. New York. New York via Kinsgton. New York via Port Limon. New York. Tampico.		111111111111111111111111111111111111111
*ARRIVALS	Line	Panatua Railroad Commissary. United Pivit Company. Panama Railroad Steamship Line. Panama Railroad Steamship Line. Inited States Army. United States Army. United States Army. United States Army. United Fruit Company. United Fruit Company. United Fruit Company. Lailroad Fruit Company. Loyland Line. Panaman Railroad Steamship Line. Pan-American Pet. & Trans. Co.		
	Vessels	Middlebury Cartago Cartago Cartago Cortago Gen, W. C. Gorgas. Solan Romora. Santa Malta. Santa Malta. Accapa. Alexandran.		
	Date	Sept. 28 Sept. 29 Sept. 29 Sept. 30 Sept. 30 Sep	(k) Ing.	

	San Francisco.
*DEPARTORES	Sept. 28. Annette Rolph. Rolph Navigation & Coal Co. San Francisco.
	Annette Rolph
	Sept. 28
	Callao. Portland.
*ARRIVALS	Peruvian GovernmentUnited States Shipping Board
	Lima (crusier) Butte.
	Oet. 1

*Other than ships passing through the Canal.

Nitrate Traffic through the Canal.

Press reports state that the sale of 500,000 tons of nitrate from Chilean fields for delivery in Great Britain was made in England in the early part of September, and that vessels will be sent from England to receive the shipments between October of this year and March of 1920. This traffic will normally pass through the Canal, which effects a saving of about 3,000 miles in the voyage from ports of Great Britain to Iquique or Arica, or about 10 days for a 12-knot ship, with the advantage of cheaper coal by the Canal route.

During the current year the nitrate traffic through the Canal has declined very noticeably, which is ascribed to lack of transportation, the cessation of the war, development of the extraction of nitrogen from the air, and conditions of the market. During the time that the United States was in the war the shipments of nitrate through the Canal (from April 1, 1917 to November 1, 1918) aggregated 3,644,443 tons, an average of 191,813 tons per month for the 19 months. In November, 1918, they amounted to 242,623 tons; in December they dropped to 176,288 tons, and the total shipments from January 1 to September 1, 1919, have been 192,799 tons, an average of 24,100 tons a month, slightly over an eighth of the war period average. The following table shows the shipments through the Canal from July 1, 1918, to September 1, 1919, allowing as an average that in the instances where nitrate was carried in mixed cargoes and not definitely stated, half the cargo may be considered as nitrate:

	Bu	lk.	Mixed.		Total—Bulk and ½ mixed.		
Month and Year.	U. S.	Europe.	U. S.	Europe.	U.S.	Europe.	Total.
tuly	208,514 195,317 286,828 210,055 168,315 45,484 11,234 19,063 1,504 13,341 13,636	41,427 9,630 20,050 17,172 6,370 5,731 800 27,050 11,947 4,901	20,860 22,574 16,086 8,303 21,383 3,206 2,242 4,775 10,097	3,592	203,234 219,801 203,360 290,479 220,721 169,918 46,605 13,621 24,111 13,880 1,504 13,341 13,636 27,088	41,427 14,286 3,530 26,298 21,902 6,370 5,731 5,433 800 5,650 14,702	244,66 234,08; 206,98; 316,77; 242,62; 176,28; 52,33; 19,06 24,91; 19,53; 16,20; 13,34; 20,33; 27,08
Total	1,406,563	120,778	109,476	63,700	1,461,299	152,826	1,614,12

From the opening of the Canal to April 1, 1917, the nitrate shipments aggregated 3,208,700 tons, and from April 1, 1917, to September 1, 1919, they amounted to 4,256,163 tons, making the aggregate to the latter date, 7,464,863 tons, slightly over one-fourth of all the cargo which had passed through the Canal.

Notice to Mariners. - Light Extinguished, Serrana Bank, Caribbean Sea. THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., October 4, 1919.

CIRCULAR No. 643-66:

Serrana Bank Light is reported out at present for some unknown reason.

It will be investigated and relighted as soon as practicable. Light—white, flashing, 0.5 second light, 4.5 seconds dark. Latitude 14° 16′ 40″ north. Longitude 80° 23′ 50″ west.

CHESTER HARDING, Governor.

New Cold Storage Plant and Abattoir.

The cold storage plant and abattoir unit at Mount Hope, adjoining Cristobal, at the Atlantic entrance to the Canal, has been placed in practically complete operation. The services which the new plant has rendered in the past few months have demonstrated its fitness and have served to suggest at the same time a few minor changes of internal arrangement which will increase its efficiency. It has shown itself to be a valuable adjunct in the service of supplying foodstuffs to the steamships at the Canal, as well as to the Government forces stationed here.

In the handling of cattle, the force at the abattoir has been able to kill and dress 200 beeves, preparatory to chilling, in a working day of eight hours. This is at the rate of 25 an hour, or one every 2 minutes and 40 seconds. At an average of 500 pounds per dressed carcass, the daily output of beef products would be 100,000 pounds, or 50 tons. In addition, 200 hogs and 600 chickens may be killed in a day. The storage rooms in the adjoining building will ordinarily hold 4,815 beef carcasses hanging in halves, or 2,957 head if hung in quarters, and these capacities can be increased if necessary by stacking the beef instead of hanging it.

The unit contains three main buildings, each three stories in height, the cold storage building, abattoir, and a meat cannery, now used as a storage for canned goods. The refrigerating and ice plant is housed in a separate building adjoining the cold storage building, and across a concrete road from this and the main buildings is a garage, which serves also as a charging station for the electric trucks used about the plant, and a building which houses the steam plant, with a machine and tin shop at one end and a carpenter shop at the other.

Cattle pens adjoin the abattoir.

The plant covers slightly over four acres, and its cost to Septem-

ber 1, 1919, was approximately \$1,491,500.

The construction is of reinforced concrete columns, beams, and floor slabs, with filled-in block walls. The roofs are of flat slabs, made waterproof by eliminating temperature cracks with ½ per cent of reinforcing steel. Floors, walls, and ceiling are lined with 4-inch, 6-inch, or 9-inch thickness of cork where low temperatures are required. The ice cream rooms and those devoted to storage and handling of dairy products are floored with red ceramic tile.

ABATTOIR.

The abattoir is 95 by 134 feet in plan, and three stories in height. The live stock is driven up from the stockyards over a 6-foot wide exterior concrete runway to the third floor, where all killing is done. Provision has been made for slaughtering as high as 300 cattle per day on six killing beds, with allowance for installation of a seventh bed, and 600 hogs per day, with capacity for further expansion. A dehairing machine with a capacity of 200 per hour has been installed. The dressed beef and hogs are run upon overhead rails across a bridge and directly into the chill rooms of the cold storage plant.

All offal and by-products from the killing floor are dropped through chutes and delivered by gravity to the floor below, where they are cleaned and sent to the proper department. On this floor are also located the bone room, the upper part of the tank house, and the upper part of the

lard and oleo oil department.

The tank house, which extends to the basement, is equipped with six rendering tanks, two blood cookers, an evaporator, and a press from which the tankage is conveyed by trucks to the fertilizer plant and the grease in barrels for transportation to the United States.

The lard and oleo department, extending through the first and second floor, is provided with machinery required for the manufacture of steam lard, open-kettle lard, oleo oil and stearine, together with the

cold room for storage of the finished products.

A small poultry-killing space has been provided on the first floor

where 600 chickens, ducks, etc., may be killed daily.

The remainder of the first floor is occupied by the hide department. The hides are dropped direct from the killing floor, after which they are salted and stored in salt vats, which have a storage capacity of 6,000 hides.

The building occupies a convenient location with respect to the cold storage building, boiler house, and repair shops, and is reached by a road on the east side and by railroad tracks on the west.

COLD STORAGE BUILDING.

The visitor to the cold storage plant is struck by the novelty of zero temperature in the tropics, and snow at an elevation of 10 feet above sea level at a latitude of nine degrees from the equator. The refrigerating pipes become in time so encrusted with snow that it is necessary to remove it. The pipes are flushed with a hot gas and the melting snow drops to the floor, from which it is picked up in scoops and carted away. It is one of the few waste products of the plant.

Nearly half of the storage space is devoted to beef, which is killed in the adjacent abattoir and transferred to the chill and storage rooms on overhead tracks. Space is provided for refrigeration of over 5,000

carcasses of beef, consisting of:

Two chill rooms with a capacity of 200 carcasses each; four coolers with a hanging capacity of 4,815 carcasses (9,630 sides); three freezers in which quarters of beef are stacked, having a capacity of 8,064 quarters, or 2,016 carcasses.

Over 50,000 square feet of floor space, or 688,780 cubic feet, are devoted to storage of various classes, as follows:

Storage.	Square feet.	Cubic feet.
Beef. Boxed goods Butter. Chilled rooms. Egg. Vegotable.	4,705 1,110 4,440 2,254	333,100 53,400 12,130 72,500 24,650 193,000
Total	50,889	688,780

The cold storage building has three floors. The first story is 341 feet 3 inches in length, overall, by 115 feet 8 inches in width, and the two stories above, having the same length, are 105 feet 8 inches wide.

On the third floor of the building are rooms, with necessary equipment, for corning beef, for making sausage and hamburger, and for pickling meat. On the first floor are an ice cream manufacturing plant, with rooms for freezing, hardening, brick cutting, storage, etc., and the milk bottling plant, where milk is pasteurized and bottled. The remainder of the third and first floors and all of the second floor are devoted to storage rooms, with necessary small allowances of space for the three electric elevators, each 6 by 10 feet, and for office room. The

beef storage is mostly on the third floor and shipping rooms are on the first floor; the distribution of spaces throughout the building is shown

	this tabulation:		FIRST FLO			- Dungn		
No.	Name of Room.	Length.	Width.	Height.	Cubic feet	Tem- perature, degrees F.	Kind of refrigeration.	
100	Corridors	330′ 330′ 74′ 74′ 34′	25' 14' 8'' 15' 6'' 15' 3'' 10'	11' 4"	178,000	450	Brine spray	
101	Box goods freezer	41'	34' 6'	11' 4"	14,800	10°	Direct expansion	
102 103 104 105	Box goods freezer	34' 6'' 66' 10'' 39' 27' 6'' 73'	1 25'	11' 4" 11' 4" 11' 4" 11' 4"	9,780 6,450 12,150 8,270	10° 20° 5° 0°	Direct expansion Direct expansion Direct expansion Direct expansion	
106	Packing room	111	6,	} 11′ 4″	26,180	45°	Fan system	
107 108 109 110 111 112 113 114	Livers, tongues, and hearts Saw room. Scrap room. Butcher Cutting. Meat cooler. Meat cooler. Meat cooler.	27' 6'' 27' 6'' 24' 6'' 14' 3'' 36' 3'' 72' 6'' 72' 6''	18'3" 16'6" 14'3" 10'6' 29'8" 16'6" 36'	11' 4'' 11' 4'' 11' 4'' 11' 4'' 11' 4'' 11' 4'' 11' 4'' 11' 4'' 11' 4''	5,690 5,150 3,960 1,695 16,300 13,550 29,600 27,800	26°-30° 45° 20° 32° 40° 18° 18°	Direct expansion Brine Direct expansion Direct expansion Fan system Direct expansion Direct expansion Direct expansion	
115	Packing	40' 6''	39'	11' 4''	27,000	45	Brine	
116 117 118 125	Packing Hardening room Ante room Brick cutting. Hardening room Finished product.	21' 17' 1'' 18' 4'' 21'	8' 7' 14' 10'' 8'	11' 4'' 11' 4'' 11' 4'' 11' 4''	9,090	0° 20° 40° 0°	Direct expansion Direct expansion Direct expansion	
126	Finished product	12' 83'	12' 6'' 34' 6''	11' 4'' 9' 6''	1,650 27,000	0° 28°	Direct expansion Direct expansion	
SECOND FLOOR.								
200 205	CorridorOnions.	297' 6'' 48' 1''	14' 6'' 14' 4''	10' 10½'' 10' 10½''	46,800 7,480	45° 36°—38°	Brine spray Direct expansion air	
206	Vegetable storage	87' 2'' 30' 7'' 11'	85′ 2″ 15′ 10′	10' 101'''	82,750	36°—38°	Fan system	
207	Vegetable storage	87' 6'' 21' 6'' 19'	85′ 2″ 54′ 9′	10' 101"	95,500	36°38°	Fan system	
208 209 210	Cheese	18' 8''	17' 1'' 17' 1''	10' 10½'' 10' 10½'' 10' 10½''	3,465 6,300 8,100	32° 45°	Direct expansion Brine	
211	Egg storage	39' 8'' 48' 2'' 24' 7''	34′ 4″	10' 10''' 10' 10''' 10' 10'''	8,100 17,900 4,700	32°—38° 38°—40°	Direct expansion Brine	
214 215 216 217	Butter cutting	11' 24' 3'' 30' 29' 2'' 28' 2''	6' 15' 3'' 24'\1'' 28' 2'' 13' 4''	10' 10½'' 10' 10½'' 10' 10½'' 10' 10½'' 10' 10½''	4,020 7,820 8,800 4,070	58° 10° 32° 40°	Brine Direct expansion Direct expansion Direct expansion	
219 220	Milk storage. Tempering room. Bunker room. Extract.	21' 16' 8''	8' 6' 8''	10' 10½'' 10' 10½'' 10' 10½'' 10' 10½''	} (a)	(a)	(a)	
223	Bunker	21'	8′	10' 101")			
(a) Included in ice cream. THIRD FLOOR.								
300	Corridor	227' 6'' 52' 6'' 37'	14′ 6′′ 6′ 17′	14' 6'' 18' 6''	} 53,630	45°	Brine spray	
303	Sausage cutting. Sausage cooker. Pickling room. Meat cooler.	37' 25'10'' 50'10\frac{1}{2}'' 88' 5''	17' 15' 7'' 33' 3'' 18' 1''	18' 6" 14' 6" 14' 6" 14' 6"	9,125 5,840 24,500	38° 38° 38°	Brine spray Direct expansion Brine spray	
304		88' 5'' 10' 11'	18' 1'' 7' 10'	14' 6''	24,200	18°	Direct expansion	
306 307 308	Meat cooler. Meat cooler. Meat cooler. Meat cooler.	88' 5'' 88' 5''	34' 4'' 51'10'' 51'19''	14' 6'' 14' 6'' 14' 6'' 14' 6''	43,300 66,500 66,500 65,000	18° 18° 18°	Direct expansion Direct expansion Direct expansion Direct expansion	
309 310 311 312	Meat cooler. Chill room. Chill room. Chill room. Chill room.	11' 45' 4'' 45' 4'' 45' 4'' 45' 4''	11' 25' 3'' 25' 3'' 26' 3'' 26' 3''	18' 6'' 18' 6'' 18' 6''	21,160 21,160 22,000 22,000	36°—48° 30°—36° 36°—48°	Brine spray	
	Chill room.			18' 6''	22,000	30°—36°]	

Ice manufacturing plant—This structure adjoins the cold storage building and is connected with it by a 30-foot platform. Three

50-ton freezing tanks with necessary agitators, air blowers, filters, tipping tables, precoolers, and dipping tanks are located in the tank room.

Raw water ice is manufactured in 300-pound cakes, and three overhead cranes, one for each tank, are provided for handling the ice. The plant is now supplying the north end of the Canal Zone. The ice

plant at Balboa supplies the south end.

Engine room—The engine room equipment consists of three 200-ton high speed York single-action vertical condensed ammonia compressors, directly connected to 400-horsepower motors. One pump-out machine is provided. Four vertical centrifugal pumps of 1,000 gallons-per-minute capacity are located in a sump under the engine room, directly connected to vertical motors located on the main floor of the engine room. Salt water is furnished to this sump from the East Diversion by gravity through a 24-inch concrete pipe, 3,900 feet long, and is pumped to double tube condensers on the roof of the freezing room. Fresh water is furnished from Brazos Brook Reservoir.

A 20-ton overhead electric crane is provided, covering the entire area

of the engine room.

The main electrical switchboard, transformers, and distribution

system are located along one side of this room.

An idea of the producing work of the plant may be gained from the following comparative statement of output of the several plants during the five fiscal years, 1915 to 1919. In the last column is shown the average daily production for each of the 304 working days of the fiscal year 1919. These figures do not show the ultimate capacity of the new plant, and it was not until toward the end of the fiscal year 1919, (June 30), that it was in use:

(For statement referred to, see page 97.)

The new cold storage plant was used for the first time on February 25, 1919, when 300 sides of beef were put into the chill rooms. Two rendering tanks, each with a daily capacity of 9,000 pounds of offal, were placed in operation on February 26. The first hides were put down three days later and by the middle of March practically all the beef storage was in use. With the transfer of the butter, cheese, egg, and vegetable sections on May 18, the new cold storage plant proper was in complete operation.

At the end of June, 1919, the plant was full almost to capacity, there being 3,611 carcasses hanging, 8,159 quarters wrapped ready for export, and 2,009 quarters unwrapped. This was due to the fact that the kill had been for some time maintained at the rate of 200 cattle daily and shipments on a contract with the Depot Quartermaster, United States Army, New York, were suspended on very short notice. As soon as this advice was received from the Army, the kill was reduced to

approximately 100 cattle daily.

The facilities at the new abattoir are a great improvement over those at the old slaughterhouse, where the employees worked in such congested quarters that, when the kill reached 200 cattle per day, it was necessary to work two shifts. Located immediately contiguous to the cold storage, it is much more convenient for all concerned and time and labor are saved. After slaughtering, the halved carcasses are transferred by conveyor track to the chill room, thus obviating the

Abattoir, Sausage Factory, and Ice Cream Plant Output for Five Years.

ABATTOIR.

SAUSAGE FACTORY.

	1915	1916	1917	1918	6161	(a) Daily average.
Corned beef produced. Hamburger steak produced. Homemade sansage produced. Corned bork produced. Tongue produced. Bacon anoked. Ham smoked. Shoulders smoked. Shoulders smoked. Beef smoked. Shoulders smoked. Ham boiled. Shoulder spoiled.	Pounds 173, 112 143, 494, 498 1, 1, 154	Pounds 196, 169 125, 712 8, 553 2, 932 5, 450	Pounds 188.271 138.271 37.719 12.027 12,913	Pounds 238,142 208,859 47,451 47,451 9,730 60,144 65,208 240,521	Pounds 192,998 176,005 67,241 80,134 34,320 60,669 60,669 1137 288,846 7,979 12,409 7,979 1,822 1,822 2,136	Pounds 635 221 221 201 200 201 950 411 26 6 6
Value of output.	\$38,307.68	\$54,969.67	\$55,525.14	\$101,516.07	\$275,121.87	\$905.01

ICE CREAM PLANT.

	1915	1915	1917	1918	1919	(a) Daily average.
	160,505	167,528	163,326	216,262	252,344	830
Cream bottledquarts			386,164	452,697	399,997	1,316
			11,097	7,809	7,710	25
value of output.	\$159,376.36	\$251,880.93	\$226,024.22	\$339,926.34	\$423,623.67	\$1,393.50

(a) Average per working day in fiscal year, 1919.

necessity of the car formerly used for conveying from the old abattoir to cold storage.

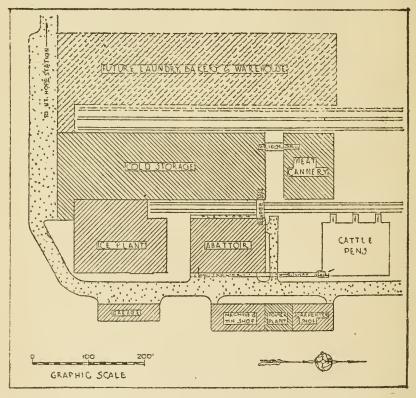
The plant was designed by Canal engineers, in cooperation with officials of the Commissary Division, and is a development to meet local conditions, using at the same time the equipment and lay-out of modern

plants in the United States.

The meat-canning factory, a three-story building 103 feet 4 inches long by 87 feet 8 inches in width, has been completed as far as building operations are concerned, but the canning machinery has not been installed. The building is now used as a storage for canned goods.

The accompanying plan shows the layout of the completed buildings and also the site adjoining on which it is proposed to erect a large building of the same general type of construction, to serve as a

laundry, warehouse, and bakery.



LAYOUT OF COLD STORAGE, ICE PLANT, AND ABATTOIR OPERATED BY THE PANAMA CANAL AT ATLANTIC TERMINUS.

Tolls in September.

Tolls paid by commercial ships passing through the Canal in September aggregated \$588,993.99, of which \$264,114.90 was paid by vessels from Atlantic to Pacific and \$324,879.09 by those going from Pacific to Atlantic; the number of the former was 73 and of the latter, 101. (The average per ship was \$3,385.02.) The total tolls were \$20,452.97 less than in August.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending October 4, 1919.

				Car	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Newport	Pacific Mail Steamship Line		September 28°.	Tons.	Tons. 1,971
Middlebury Balboa	Panama Railroad Commissary Terminal Shipping Agency	September 28.		704	
Palena Lake Wilson	United Fruit Company		September 29. September 29.		$^{626}_{2,295}$
Cartago	United Fruit Company United States Government		September 30. September 30.	727	
FairhavenSan Jose	Anglo-American S. S. Ageney Pacific Mail Steamship Line		September 30. September 30.		
Gen. W. C. Gorgas Ulysses	Panama Railread Steamship Line Panama Railread Steamship Line	September 30	October 3		
Cauca	Pacific Steam Navigation Co United States Government	September 30 September 30		460	
Allianca. Santa Malta	Panama Railroad Steamship Line. United States Government	October 1	October 1	1,665	1,769
Chile Santa Marta	Pacific Steam Navigation Ce United Fruit Company	October 1		928	50 773}
Ucayali	Peruvian Steamship Company United Fruit Company		October 2		113
Colen	Panama Railroad Steamship Line Paeific Steam Navigation Co	October 2		806	
Jamaica	Pacific Steam Navigation Co United Fruit Company	October 2	October 3	68	
Alexandrian		October 3		1,916	

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending October 4, 1919.

				Care	go-
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Newport. Balboa San Jose. Cauca Chile. Hatchie.	Pacific Steam Navigation Co Pacific Steam Navigation Co	September 28. September 28. September 30. September 30. October 1 October 2	September 28. September 28. September 30. September 30. October 1. October 2.	50 4 22	Tons. 47
Acajutla Jamaica Butte	Pacific Steam Navigation Co Pacific Steam Navigation Co United States Shipping Board	October 2 October 3	October 2		

Manifests of Cardo.

THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., September 29, 1919.

CIRCULAR No. 679-9:

1. Circular No. 695-5, of December 13, 1918, requiring each vessel transiting the Canal to furnish to the boarding officer a full manifest of the cargo on such vessel, and each vessel entering a Canal Zone port to furnish an additional copy of its mani-

fest, for statistical purposes, is canceled.
2. Present requirements are that three copies of the manifest be submitted by each ship handling cargo in the terminal ports of the Canal, and that the cargo declaration form, No. 4363, be submitted by vessels making the transit of the Canal, but not handling cargo at the terminal ports. For the convenience of such vessels, however, a manifest will be accepted in place of the cargo declaration at the option of the ship's master.

CHESTER HARDING, Governor.

Contract for 1,000,000 Barrels of Fuel Oil.

Contract has been made with The Panama Canal by the West India Oil Company for the delivery by the latter of 1,000,000 barrels of fuel oil to the tanks of the Canal, June 30, 1920. Three hundred thousand barrels are to be delivered at Cristobal, at \$1.12 per barrel and 700,000 at Balboa at \$1.29 per barrel. The oil is to be purchased on the basis of 42 gallons to the barrel at 60° F.

Toll Charges in Connection with Double Bottom Spaces.

Under the present method of assessing tolls on loaded merchant vessels, other than oil tankers, transiting the Panama Canal, spaces in cellular double bottoms are, in effect, not charged for even when such spaces are used to carry fuel oil, boiler feed water, drinking water, or cargo, when the Panama Canal net tonnage times \$1.20 exceeds the United States net tonnage times \$1.25.

Oil tank steamers are charged on such spaces when used for other

than water ballast.

Merchant vessels, when in ballast, are charged on such spaces if used for other than water ballast.

Seventy-four Days from the Fiji Islands.

The 4-masted schooner Ludlow arrived at Balboa from Levuka, Fiji Islands, on September 28, for passage through the Canal, carrying a cargo of 799 tons of copra in bulk for Norfolk. The schooner was 74 days in making the voyage from Levuka. She is 185 feet in length by 39 foot beam, and carries a crew of 10 men. She laid up at Balboa for repairs, and is there now.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal postoffices, and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286):

Surveillance inspector (male); \$1,600 to \$2,400 a year; No. 469; October 28, 1919; form 1312; age, not under 21 years. *

Teacher (Indian Service) (male and female); \$600 to \$720 a year; No. 148-amended; October 22, November 19, and December 10, 1919; form 1312; age, at least 20 years but under 50 years.

Automobile mechanic (male); \$1,000 a year; No. 482; October 28, 1919; form 1800; age, at least 18

years.*
Matron; \$500 to \$720 a year; No. 152-amended; October 22, November 19, and December 10, 1919; form 304; age, at least 21 years, but under 48 years.
Domestic science teacher (female); \$720 a year; No. 258-amended; October 22, November 19, and December 10, 1919; form 1312; age, at least 22 years but under 50 years.
Calculating machine operator (male and female); \$900 to \$1,200 a year; No. 32-amended; October 2, November 19, and December 10, 1919; form 304; age, at least 18 years.
Operative (male and female); \$900 to \$1,000 a year; No. 32-amended; October 22, November 19, and December 10, 1919; form 304; age, at least 18 years.

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Samuel Friedman Jack Miller	26788	United States United States	Gatun, C. Z Cristobal	Accounting Department Mechanical Division	September 30, 1919. September 18, 1919.
Mure)	40867	Jamaica	Colon	Electrical Division	September 21, 1919.

Police Census of the Canal Zone.

The Police and Fire Division has issued a summary of a houseto-house canvass of civil inhabitants of the Canal Zone, taken between August 20 and 31, 1919. The total civil population was found to be 21,759, an increase of 52 persons from the 21,707 enumerated between June 20 and 30, 1918. The results of that canvass were published in The Panama Canal Record of July 24, 1918. In the Balboa district there was an increase of 44 persons, to a total of 14,056, and in the Cristobal district an increase of 62, to a total of 7,586; the prisoners, counted separately, decreased from 171 to 117, a change of 54. In connection with the canvass, an enumeration was made of people living outside the Canal Zone on the shores of Gatun Lake and dependent on the lake for transportation; these showed an increase of 616, to a new total of 2,979. The detailed figures of the enumeration follow:

BALBOA DISTRICT.

	Ameri	caus.	All ot	hers.	Áı	nerican	s.)	A	II other	s.	
	12111111							Total	yr]		
Location.	Total men.	Em- ployees.	Total men.	Em- ployees.	Total wom-	Em- ployees.	Chil- dren.	wom-	Em- ployees.	Chil- dren.	Total.
Ancon Hospital.	507	503	180	180	162	76	241	74		20	1,184
Staff	20	20	46	46	60	60	9	75		17	$\frac{126}{646}$
Patients (civilians only)	169 19	30	377	158	8 11	2	5	10 2	3 2		37
Tivoli Hotel Rural (on east side of Canal be-	19	7			11		J	- 1	-		01
tween boundary line and Car-										1	
denas River)			5	5				3		4	12
BALBOA HEIGHTS	171	168	24	24	252	143	192	48	<i>-</i>		687
BALBOA	967	953	145	94	664	52	863	155		37	2,831 10
Petrolia	3 54	54	895	895	59	ii	67	426		874	2,375
La BocaQuarantine Station	9	5	23	16	2	1	2	3			39
Floating equipment	3	3	34	23							37
PALO SECO						}					07
Staff	1	1	16	16	1		3	6	2	8	27 73
Patients			48					17		"	1
Venado plantation Rural (on west side of Canal be-			1	1							-
tween Pacific shore and Arrai-											
jan trail)			2					1		5	8
Farfan pastures			70	70							70 78
COROZAL	8	3	28	24	5		5	28		4	18
Corozal Asylum.	1.0	10	156	156	8	8	8	15	15		203
Staff Patients	16	16	222	190	0	0		168	10		394
MIRAFLORES		11				1		2			13
PEDRO MIGUEL		222	23	23	157	14	159	14			579
Miratlores pastures			6	6				4		3	13
Red Tank			571	564				385		647	1,000
Rural(on east side of Canal be- tween Cardenas River and						1					
Chagres River)	1	1	1	1	1	1		1		1	5
Pedro Miguel pastures		ĺ									
PARAISO		5	478	468	4	2	8	283		570	1,348
Paraiso pasture camp	3	3	8	8							27
Floating equipment		5	24 82	24	1		2	15		28	133
Summit pastures		9	0=	0.1	1		1	10			
Las Cascadas plantation			8					. 1		2	11
La Pita	. [7								188
Gamboa (south of Chagres River)	2	2	77	77				. 42		. 67	100
Gamboa stockade.	. 5	5	4	4							9
Officers		1	15	15				2	1	1	19
Limon plantation	.	1									
CULEBRA	. 7	6	18		. 7		. 4	1			37 314
Golden Green			. 99	2				106		127	* 457
Lirio eamp.		1	156	25 63	3	1	9	. 63		150	277
Cerro camp.			28	17				1			28
Camacho	}										
Mandingo pastures	. 2	2	136	136							i 138
Rural (on west side of Canal be					1					-	
tween Arraijan trail and Gatu			. 4								4
Lake)											
Martinique camp											
Bas Obispe pasture camp											
		0.005	-}	2 000		. 359	-		. 22		5,630
Total employees	9 913	2.027	4.081	3,222	1,408	. 359	1.574	2,029		2.751	14,056
Total persons	.12,210	1	.,4,001	1	.11,703	******	,017	,2,020		.,5,101	

CRISTOBAL DISTRICT.

	A	merican	S.	l All	others						
Location.	Total men.	Em- ployees.	Total men.	Em- ployees.	Total wom- en.	Em- ployees.	Chil- dren.	Total wom-	Em- ployees.	Chil- dren.	Total.
GAMBOA (north of Chagres River)	10	10			4		5	2			21
Floating equipment	1	1	30	30				3		1	35
Frijolito)			7	7				2 5		3	9
CAIMITO PASTURES	1 1	1	17 24	17 24	1			10 10		12 12	27 47
Frijoles plantation			19 8	19 8							19 8
MONTE LIRIO	4	3	43	$\frac{42}{2}$	1		2	20		23	93 3
Monte Lirio pastures	183	180	208	203	161	5	224	170		261	1,207
Labor camps New Gatun	1	· · · · · · · · · · · · · · · · · · ·	55 527	55 496	1		1	300	1	437	55 1,267
Bracho plantation			2	2				1		2	5
Lake and Caribbean Sea) France Field, Coco Solo and Ft.	1	1	7	7	1		1	28	,	3 6	16 43
Randolph	1	1	48	48	1		5 26	2 2		$\begin{bmatrix} 2\\2\\2 \end{bmatrix}$	59 61
Mt. Hope pastures (including hog farm and Manjagual plantation).	15	12	6		10		20	1			
plantation)	693	679	24 39	24 36	240	31	221	13		11	1,203
Folks River camp Camp Bierd	i	1	387 1,711	381 1,711				341	4	783 66	1,512 1,812
Sweetwater plantation			17	17				3			20 1
Fortification camp Bracho-Mindi plantation			2	1 2				2		5	9
Total employees	917	895	3,190	3,132	423	36	485	953	5	1.618	4,068 7,586
			PRIS	SONER	S.						
Balboa	4		17					1			22 3
Ancon	3		3 26								29
Gamboa penitentiary	2		30								32
Gatun. Cristobal	2		3 25								3 27
						-					
Total persons	11	D	105	TULAT	HON	1	1	1	1	1	117
Dallar district	1	2,027	LOAII	3,222	ION.	395		1	22	1	5,630
Balboa district	2,213		4,081		1,408	36	1,574	2,029		2,751	14,056
Cristobal district	917	895	3,190	3,132	423	30	485	953		1,618	7,585
Prisoners	11		105					1			117
Total employees	3,141	2,922	7,376	6,354	1,831	395	2,059	2,983	27	4,369	9,698 21,759
POPULATION OF THE GATU	N LAK ON GA), WHO	ARE	DEPEN	DENT
UPPER CHAGRES			83	5				66		89	238
Gatuncilla			38 40					21 29		28 35	87 104
CANO QUEBRADA	1 2	1	107 166	11				99		68 180	220 447
Escoval	3	1	128		3		1	109 38		180 62	424
New Limon	3	2	74 177	9	1		1	152		243	174 577
New Providence	. 3	1	243 28	15	2		3	138		220 17	609 59
QUEBRANCHA ARM	. 1		18		1			7		13	40
Total employees	13	5	1.102	41	7		5	717		1.135	2,979
	Land	Cable		sses o	The	Panar	na Car				

Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama"; in the United States, "Pancanal, Washington."

Official Circulars.

Appointment.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., September 30, 1919.

HEADS OF DEPARTMENTS AND DIVISIONS:

Effective October 1, 1919, Mr. R. W. Glaw is designated Paymaster, The Panama Canal, and will serve during the absence of Mr. J. H. McLean. CHESTER HARDING.

Governor.

Transportation.

THE PANAMA CANAL. EXECUTIVE OFFICE BALBOA HEIGHTS, C. Z., October 1, 1919. CIRCULAR No. 658-6:

Paragraph 17 of Circular No. 658-4, dated November 24, 1916, is amended to read as follows, effective October 1, 1919:

17. Reimbursement for cab, jitney or street car fares will be allowed when it is necessary for an employee to use such transportation in the performance of official duties assigned to him by proper authority. The trips must be itemized including date, starting point and destination, when the itemized we have a constraint of the property of the including weather for reimbursement. When submitting voucher for reimbursement. When available, regular bus or street car must be used. Fares in excess of those charged on bus or street car lines, when the points between which the travel is performed are convenient to such lines, will require specific explanation.

CHESTER HARDING, Governor.

Official Correspondence.

THE PANAMA CANAL, EXECUTIVE OFFICE.

BALBOA HEIGHTS, C. Z., September 30, 1919. CIRCULAR No. 616-1:

1. Employees must not take any action either by correspondence with or a visit to a contractor or prospective contractor for material or supplies for The Panama Canal, which could in any way be construed to be official or authoritative, unless such employees have been specially authorized to so represent The Panama Canal.

to so represent The Panama Canal.
2. If it is desirable to give or to receive information regarding any Panama Canal contract or prospective contract in the United States, the employee may, if on the Isthmus, address the Chief Quartermaster; if in the United States, address the General Purchasing Officer, The Panama Canal, Washington, D. C.

CHESTER HARDING, Governor.

Photographs and Blue Prints.

THE PANAMA CANAL, EXECUTIVE OFFICE.

BALBOA HEIGHTS, C. Z., October 1, 1919. CIRCULAR No. 617-2:

Paragraph 3, of Circular No. 617-1, dated March 15, 1916, is amended to read as follows:

March 15, 1916, is amended to read as follows:

3. Copies of tracings in blue or white prints will be sold at 5 cents per square foot, and brown prints (vandyke negatives) at 10 cents per square foot, regardless of the size of the drawing. When the tracing is furnished by the person desiring prints, the rate will be 3 cents per square foot for blue or white prints, and 7 cents per square foot for brown prints.

CHESTER HARDING, Governor.

Sale of Universal Marine Gas Engine.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10 a. m., October 11, and then opened for the purchase of the above-

mentioned engine. This is a 12-horsepower, high mentioned engine. Anis is a 12-norsepower, ingar speed engine, with magneto and reverse gear, rear starter, propeller and shaft, muffler, etc. Same will be shown to 'prospective purchasers by the Storekeeper, Cristobal, any week day between the hours of 7 and 11 a. m. and 12 noon and 4 p. m. Bid should be accompanied by postal money order or certified cheek in an amount not less order or certified check in an amount not less than 10 per cent of the amount bid. The Panama Canal reserves the right to reject any or all bids.

Rainfall from Sept. 1 to 30, 1919, Inclusive.

		-	
Stations.	Maximum in one day.	Date.	Total.
Pacific section— Taboga Balboa	Ins. 3.50 2.17	23	Ins. 9.25 8.46
Balboa Heights.	2.58	24 24	10.84
Miratiores	1.51	3	8.33
Pedro Miguel	1.44	8	9.39
Rio Grande	2.15	1	10.89
Central section-			l
*Culebra	2.40	1	11.73
*Camacho	3.60	1	12.21
Empire	2.21	1	11.04
Gamboa	1.80	21	9.39
*Juan Mina	2.73	19	13.85
Alhajuela	1.88	26	9.35
*Vigia	2.68	1	11.96
*Darien	1.50	7 & 21	12.73
*Trinidad	1.96	11	8.44
*Monte Lirio	3.96	8	15.48
Atlantic section—	0 0		0.40
Gatun	2.25	22	8.42
*Brazos Brook	3.60	8	10.55
Colon	2.22	4	11.74
‡Bocas del Toro.			
*Porto Bello	2.45	7	14.37

^{*}Standard rain gauge-readings at 5 p. m. daily. Automatic rain gauge at unstarred stations-values, midnight to midnight.

Standard rain gauge-readings at 8 s. m. daily.

Sentember Rainfall for Three Venue

		INCHES	l.			
Stations.	1919	1918	1917	Station average.	Years of record.	Rainy days, 1919.
Pacific section— Balboa Heights Balboa Heights Alirafores. Pedro Miguel. Rio Grande. Central section— Culebra. Camacho. Empire. Gamboa Juan Mina Alhajuela. Vigia. Frijoles Trinidad Monte Lirio	8.46 10.84 8.33 9.38 10.89 11.73 12.21 11.04 9.39 13.85 9.35 11.96 8.44 15.48	6.58 7.03 6.97 7.27 7.81 10.01 9.12 9.25 7.60 41.53 11.07 13.24 9.25 7.60	9.41 11.53 14.25 11.39 13.05 9.95 11.44 9.93 11.51 9.92 10.67 13.78 8.44 14.10	7.04 7.89 9.14 8.40 10.40 10.77 10.45 8.92 10.38 12.07 11.58 13.05 11.34 11.00 13.04	21 23 11 12 15 30 14 16 37 9 21 12 8 12	21 21 19 21 21 22 23 20 22 25 25 25 24
Atlantic section— Gatun Brazos Brook Colon	8.42 10.55 11.74	7.27 13.79 15.34	12.20 13.31 17.67	10.05 12.24 12.65	15 14 49	18 17 20

Live Stock on Pastures and Farms.

At the beginning of October, the Cattle Industry had on hand in the Canal Zone pastures, fattening for slaughter, 12,430 beef cattle, classified as follows: Fat steers, 4,769; 4-year olds, 7,375; 3-year olds, 161; 2-year olds, 41; and 1-year olds, 84. The breeding stock, in addition to the foregoing, contained 1,155 head, and the dairy stock, 1,083 head, of which 85 are Holstein cows.

Stock on the hog farms consisted of 731 pigs, 937 shoats, 155 hogs,

790 sows, 13 boars, and 110 goats.

Stock at the poultry farm included 11 chicks, 2,048 chickens, and 49 turkeys.

COMMISSARY NOTES.

Voile.

The Commissary purchasing agent has written that the market is practically bare of low-priced voile and any acceptable quality is commanding a good figure at present.

Straw Hats.

Inquiries recently made failed to locate an inexpensive grade of straw hat being manufactured in the United States. From all indications the day of the cheap straw hat is at an end.

Oysters.

Another shipment of oysters, consisting of 25 barrels, was received on the steamship Advance. They are, for the most part, large in size and were received in excellent condition. All line stores now have them for sale.

Oil Stoves.

A shipment of "Florence Way" oil cook stoves, 2 burner and 4-burner, was distributed to the line stores Saturday. These have been in large request among commissary patrons.

Shirts.

Advice from New York states that men's negligee shirts have reached a high mark in price. It is said to be hard to find a retail store selling a shirt of any quality at less than \$2.

Pottery.

A further increase of 10 per cent in price is announced by the Royal Doulton Potteries. It is stated that the recent increase in the cost of fuel added to the considerable advance given their work people together with the certainty that materials will continue to rise makes this action absolutely necessary.

Crushed Orange Syrup.

Concentrated crushed orange syrup, a new beverage product for making soft drinks at home at little cost, has been manufactured by the Commisssary Division and is now on sale at all retail stores in quart bottles at 50 cents (with 5 cents for return of the bottle). It is only necessary to add several tablespoonfuls to a glass of ice cold water to obtain a drink that will, as a rule, allay the thirst. The fresh fruit flavor makes it delicious as well as refreshing. The time and trouble usually spent in cutting and crushing the fruit is saved, this drink being preparable within a few minutes. a few minutes.

Cabbage.

The commissary purchasing agent has advised that just prior to the departure of the steamship Advance from New York there was little cabbage in the market and that it was the general opinion that it would be impossible to obtain this vegetable in shipping condition for the next five weeks, after which good "Danish"

cabbage would be coming into the market.

However, commissary customers will probably suffer no inconvenience on this account as the supply from Costa Rica will, it is believed, be sufficient to last during

this period.

THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

Subscription rates, domestic, \$1.09 per year; foreign, \$1,50; address The Panama Canal Record, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C. Entered as second-class matter February 6, 1918, at the Post Office

at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., October 15, 1919.

No. 9.

Notice to Steamship Lines.

THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., October 11, 1919.

1. Difficulties experienced in securing the delivery of sufficient coal to supply ships using the Canal with all the bunker coal they desire, make it necessary to request the cooperation of steamship lines in limiting the amount of coal required by their ships to a minimum.

2. For the present, it is requested that vessels be dispatched so that those passing from the Atlantic to the Pacific will require only sufficient bunker coal to reach San Francisco, Honolulu, or Coronel. Those vessels trading to South American ports north of Valparaiso will be supplied with sufficient coal for return voyage to the Canal. In the case of vessels passing from the Pacific to the Atlantic and bound for European ports, it will be impracticable at present to supply them with sufficient bunker coal to make the voyage direct, but they will be bunkered to reach Norfolk, or Newport News, Va.

3. Those vessels using either terminal port as a terminus of their established route

3. Those vessels using either terminal port as a terminus of their established route should be dispatched so as to require only sufficient coal to make the next port of call on their established route where a commercial coaling station is available.

4. Those vessels using either terminal port merely as a port of call will be given coal only in exceptional cases.

CHESTER HARDING, Governor.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending October 11, 1919.

				Car	go
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded
Alexandrian	Leyland Line		October 5	Tons.	Tons. 163
S. M. Spalding Gen. W. C. Gorgas Middlebury	Pan-American Pet. & Trans. Co Panama Railroad Steamship Line Panama Railroad Steamship Line		October 5		(*) 4,215
Santa Leonora	United States Government United States Government		October 6 October 6		70
AcajutlaJamaica	Pacific Steam Navigation Co Pacific Steam Navigation Co		October 7		1,0803
Advance	Fanama Railroad Steamship Line. Pacific Steam Navigation Co Panama Railroad Steamship Line.	October 5	October 9	302	1,568
Laura C. Hall	Pacific Metal Corporation United Fruit Company	October 7 October 8	October 10	65 1.666	(*) 551
Ansaldo I	United Fruit Company Societa Nazionale Navigazione Pacific Sterm Navigation Co.	October 8	October 10	137	(*)
Santa Marta	United Fruit Company United States Government	October 9	October 9	28	792 95
Cauca	Pacific Steam Navigation Co United States Government	October 10	October 10	17	695
Panama	Panama Railroad Steamship Line. United Fruit Company	Ontober 11	October 11.	3,262 50	68

* No cargo laded.

† Pounds.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending October 11, 1919.

N				Cargo—		
Name of vessel.	Line or charterer.	Arrived.	Departed.	93	Laded.	
Salvador. Acajutla. Jamaica. Chile. I.aura C. Hall. Ansaldo I. San Francisco.	Pacific Steam Navigation Co Anglo-American Steamship Co Marco Ronco	October 7 October 7 October 9 October 9	October 7 October 7 October 9 October 9 October 10	93	Tons. 2 9 1 1 34	

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight, October 11, 1919.

THROUGH THE CANAL -ATLANTIC TO PACIFIC.

				2010000000	, p=((C))	P 01 44 01 00 +	4110031	1	60000040
	Cana		Net	4,306 3,492 4,202 4,760 5,156 5,156 5,990 706	3,771	4,037 6,092 4,404 692 2,628	2,201 1,023 1,023 3,750 4,971 4,001 5,207		1,675 1,502 1,722 266 692 1,674 5,696
	Panama Canal tonnage		Gross	8,245 5,037 6,525 7,051 1,187 1,273	5,136	5.163 8,174 5,765 1,213 4,040	5,452 1,582 1,582 130 5,457 6,690 5,298		050 2,687 357 2,407 875 2,676 377 396 302 1,213 960 2,689 7,560
	==	Tons		2,500 4,580 3,952 7133 4,769 1,0803	6,000	5,300 1,500 6,102	690 49 920 250 5,222		2,050 2,687 2,357 2,407 2,875 2,676 377 396 300 2,689 1,960 2,689
		Cargo		General and coke General and coke General General General General General	Case oil General	(b) General General General General	General General General (c) General	(c) Oil, 60,000 barrels.	Beans, lumber Nitrates of soda. Copra and tallow General. Lumber.
		For		Los Angeles Valparaiso Coronel Antofagasta Buenaventura. Row Zealand. Guayaquil. San Francisco.	Balboa Tientsin San Francisco.	Shanghai Wellington Shanghai Champerico Valparaiso	Guayaquil Buenaventura. Valparaiso San Francisco. San Francisco. Auckland	(c) Oil, 6	Queenstown. Habana. Valencia. London. Cristobal. Queenstown(f)
		From		Liverpool Baltimore Liverpool Habana Havre Cristobal Cristobal Cristobal Cristobal	Cristobal New York New York	New Orleans. Avonmouth. New Orleans. Cristobal.	Cristobal Cristobal Granda Genoa Port Lobos. Gotheborg.		New West'ster. Taltal Antolagasta. Sura, Fiji. Champerico. Victoria.
	Salt	water		22 22 22 25 25 25 25 25 25 25 25 25 25 2	25.0 25.0	252.0 155.0 18.6 18.6	24.0 24.0 24.0	eral.	211.0 20.0 20.0 20.0 20.0 20.0
PACIFI		Веат		523.0 525.0 525.0 525.0 53.0 56.5 56.5	52.0 56.0	50.0 54.2 55.0 33.5 43.0	25.0 25.0 54.6 51.0 55.0	nd gen	46.9 48.8 46.0 32.5 83.5 57.2
NEIC TO		Length Beam	Ì	410 0 410 0 411 0 411 0 414 0 220 0 148 3 215 0	385.0 423.0	379.8 430.0 400.0 215.0 350.0	246.0 81.0 368.7 420.0 362.0 395.0	rosin, a	279.0 253.5 267.0 132.0 215.0 279.0 419.4
THROUGH THE CANAL—ATLANTIC TO PACIFIC		Line		Harrison Steamship Line Sheman Steamship Company, Pacific Steam Navization Co. Holland-American Line D. Steam, Navization Co. Shaw, Savill and Albion Co. Shaw, Savill and Albion Co. Pacific Steam Navization Co. United States Army.	United States Navy. Clan Line S. S. Limited	Nppon to usen kaaba Oaska Shosen Kaisha New Zealand Shipping Company Oaska Shosen Kaisha Pacific Steam Navigation Co. Pacific Steam Navigation Co.	Parific Acoustics of President Steam Navigation Control Parific Metals Corporation. National Navigation Society C. T. Bowring & Company Control Tobrason Steamship Line. United States Shipping Board.	(b) Pig iron, steel, rosin, and general THROUGH THE CANAL—PACIFIC TO ATLANTIC.	French Government. United States Shipping Board. United States Shipping Board. Compagnie de Traisport Bel. Pacific Steam Navigation Co French Government.
		Nationality		British American British Dutch Norwegian British British American	American British	Japanese Japanese British Japanese British British		. 281.	French
	Cleared for sea	moE	I	13.35 7.21 14.40 18.32 17.22 17.22 15.08	7.30	15.10 15.33 15.33 17.30	14.50 19.15 9.36 15.53 20.34 16.10	subchasers 279, 280, and 281	1 19 25 7 15 22 5 18 45 9 9 50 7 18 23
		Day	1	77776665	:	, a a a a a a	22222	79, 28	
	Completed	moH	1	12.52 19.20 13.20 17.11 9.27 14.20 14.20 17.19	19.51	13 20 14 27 14 20 15 57 16 55	14 00 14 44 16 00 17 19 13 05	sers 2'	16.22 17.44 18.45 20.55 21.10 20.00 15.25
	Com	Day		777700022		0000000		bcha	4000000
		moE	1	6.35 12.25 6.10 6.34 16.22 6.05 6.41 8.47		6.08 6.18 6.18 7.10 9.50 10.10	6.05 8.25 6.25 6.25 6.25 6.25	ing su	8.28 8.52 111.12 113.10 14.50 7.46 7.46
	Entered Canal	VaU	i	777700000	~~ 0	0000000	1000001	Towing	10000000
	ved	wol	I	21.48 12.00 15.20 15.20 20.45 20.56 13.12 17.55 16.04	12.24	15.28 15.28 3.21 21.10 17.46	14.20 15.55 19.50 10.30 6.35	(a)	7.30 7.45 11.10 7.00 7.00 22.05
	Arrived at port	Day	i	4000000000	- o	000000-0	2000		9-2616 6 22 6 22 6 22
		dws		Architect. Sherman. Mexico. Sloterdyk. Kalfarli. Jamadea. Jamadea. Acajutla. Sloteum (d).	Clan MacBeth. Tokushima	Malay Maru. Paparea. Himalaya Maru. Salvador Chile	Cauca Laura C. Hall. Ansaldo 1. Cordelia. San Francisco. Bellbuckle.		Montealm. Cranenest. Buhisan. Ady (d) Salvador. Salvador. S. V. Harkness.

69		3,033		4,001	5,179	1.856	654	
130	8,648	,667 4,584 3 8,108 5	7,020	5,635	7,452 5	9.970	796	
				3,2371	3.500	5,000	799	1,000
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Buenaventura. Colombia Riv'r	alney,	lparais tofaga	copilla	apier incour	n Fran	reklanc Ilboa	vuka	neour
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		6. 55	5 57	5 40	0.0	0.56	4 39 2 51	3 40
81 . 266						294 0		195
on	Co				3oard	Shaw Saville Albion & Co United States Shipping Board	ping Cc Line	:
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Briti	Briti	Chile Ame	Nor	Fren	Americ British		Ame	Fren
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55 10 35 8	45 7 36 10	56 13 26 9	43 9	33 10 50	50 12	20 11	02 45 11	10
7 15	7 119 8 115.	8 15 8 21	9 18	0 18	1 20	1 16	2 <u>9</u>	1 20
8.40	1.57 8.04	8.37	2.03	220	2 2 2	8.30	000	9.40 1
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Lant	Goth	Ayse	San	10 T C	Dero	Mats	Ludl	C-33

(e) Sailing. (f) For orders.

PORT OF CRISTOBAL.

*DEPARTURES	Line For	Par-American Pet, & Trans, Co. Tampico. Pandal Line Panama Railroad Steamship Line. New York. Panama Railroad Commissary. United States Army. Panama Railroad Steamship Line. New York. Panama Railroad Steamship Line. New York. Panama Railroad Steamship Line. New York. Inited States Shipping Board. Inited States Shipping Board. New York via. Kingston. New York via. Kingston. New Jork via. Kingston. Odombian ports. Panama Railroad Steamship Line. New Orleans.	
	Vessels	S. M. Spalding Alexandrian Gen. W. C. Gorgas. Middebury Santa Leonora. Santa Malta. Advance Lake Cono. Holbrook Santa Marta. Holbrook Advanca Holbrook Holbrook Advanca Holbrook H	
	Date	004.3 9 7 7 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	BALBOA.
	From	New York. Variano. Noriole. New York via Kingston. Odombian ports. New York via Bluefields. New York via Haftii. New York via Haftii. New York via Haftii.	PORT OF BALBOA
*ARRIVALS		ng Board ng Board amship Line. ny ny ng Board ng Board ng whip Line.	
*ARRIVAL	Line	United States Shipping Board United States Shipping Board Panama Railroad Steamship Line United Fruit Company United Fruit Company United States Shipping Board United States Shipping Board United States Shipping Board United States Army Panama Railroad Steamship Line United Fruit Company	
*ARRIVAL	Date Vessels Line	Como. ook se s	(g) Transport.

*DEPARTURES "	gh seas. nama Bay. Oct. 5 Guardian (h) Cen. & S. Amer. Tel. & Cable Co High seas.
*ARRIVALS	Cen. & S. Amer. Tel. & Cable Co High seas. Weir and Stone

(h) Cableship. (i) Motor launch.

Other than ships passing through the Canal.

Bonded Warehouses near Atlantic End of the Canal.

Contracts have been entered into by the Government of Panama with two United States corporations for the establishment of bonded warehouses in the city of Colon, adjacent to the Atlantic terminus of the Canal, and one of the firms has its warehouse well advanced toward completion. The contracts provide for the importation and reexportation of goods under a net tariff charge of about two per cent.

Cristobal, the Atlantic terminus of the Canal, is the port at which most of the transshipment of goods at the Canal is handled. Six lines plying the Pacific make Cristobal their terminus, their vessels passing through the Canal on each voyage, but there is no line which runs from the Atlantic through the Canal to complete its voyage at the Pacific terminus. Such a service was established by the Panama Railroad Steamship Line shortly after the opening of the Canal but was abandoned. During the past 2 years and 8 months, from January 1, 1917, to September 1, 1919, the incoming cargo handled over the piers at Cristobal has been slightly over 14 times the quantity received at Balboa, and that dispatched has been over 23 times as

much as was shipped from Balboa.

The accompanying table, printed on pages 110 and 111, shows the total cargo handled by the Receiving and Forwarding Agency of the Panama Railroad Company, operating the terminal piers of the Canal at Cristobal and Balboa, from August, 1914, to August, 1919, inclusive. The Canal was opened on August 15, 1914. As far as the old records are available the table shows also the cargo received, dispatched, and rehandled, and, as a matter of local interest, the cargo stevedored by the forces of the Receiving and Forwarding Agency. Where a quantity is unknown the fact is indicated by leaders in the table. The sudden drop in tonnage rehandled at Cristobal, after October, 1916, was due to the better preparation of ships' papers prior to discharging cargo on the piers and subsequent establishment of better connections between carriers. Rehandling is simply a feature of discharging and storing or relading cargo; the real index of traffic is the cargo received and the cargo dispatched. Relatively little cargo originates on the Isthmus, and the difference between cargo received and dispatched is approximately the goods of which the final destination is the Isthmus.

The quantities of cargo received and cargo dispatched through the Receiving and Forwarding Agency at Cristobal are shown graphically on the accompanying chart, by months from the opening of the Canal. Up to April 15, 1916, traffic through the Canal was subjected to interruptions by the slides, and this was reflected in extensive fluctuations of goods transshipped over the terminal piers and by way of the Panama Railroad. From the middle of 1917 the movement of goods has been steadier. An interesting feature is the development of cargo dispatched, as shown by the broken line; with the virtual completion of Canal and terminal construction it has approached the height of the solid line indicating cargo received, and the lagging parallelism between the lines has become very distinct since March, 1918. The chart affords no index for the future, only suggesting that with the steadying of traffic, violent variations in the yearly average are not to be expected, though with the development of warehousing and transshipping businesses on the Isthmus a gradual increase of cargo handled

over the piers would normally be anticipated.

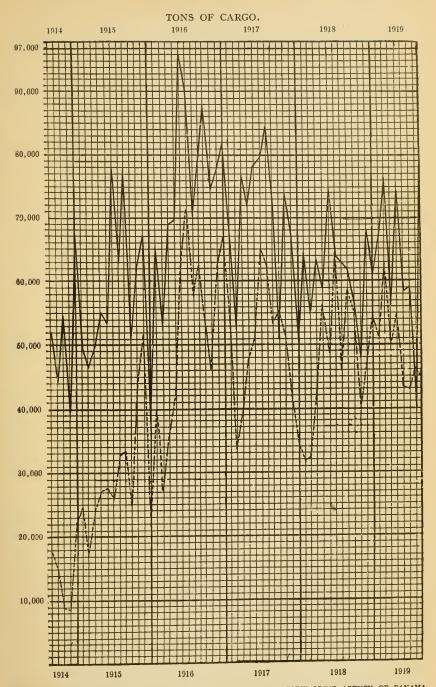


CHART OF CARGO RECEIVED AND DISPATCHED BY RECEIVING AND FORWARDING AGENCY OF PANAMA RAILROAD AT CRISTOBAL; SOLID LINE INDICATES CARGO RECEIVED, BROKEN LINE CARGO DISPATCHED. VERTICAL LINES REPRESENT MONTHS AND HORIZONTAL LINES THOUSANDS OF TONS OF CARGO.

Cargo Handled by Receiving and Forwarding Agency During Five Years of Canal Operation. PORT OF CRISTOBAL.

Month.	Cargo received.	Cargo dispatched.	Cargo rehandled.	Total handled.	Cargo stevedored.
1914.	F4 000	177 010	10.000	02.02	
August	51,993 43,881	17,612 14,874	19,202 12,000	88,807	
September October	54,841	8.940	4,262	70,755 68,043	
November	38,500	8,500 22,000	14,000	61,000	
December	68,000	22,000	5,500	95,500	
Total, 1914	257,215	71,926	54,964	384,105	
January	₹9,500	24,500	21,175	95,175	
February. March.	46,200 49,500	17,000	14,600	77,800 88,400	
Anail	49,500	24,000 27,065	14,900	88,400 109,822	
May	53,301	27,734	27,758 29,817	110,852	
May. June. July	78,232	25,665	29,817 27,849	131,746	
July	62,851	32,642 33,262	30,000	125,493 $130,296$	
August	77,970 50,500	24,525	19,064 9,135	84,160	
September October November	62,211 67.287	43,907	20,639	126,757 150,545	
November		51,833	31,425	150,545	
December	37,062	21,599	22,414	81,075	
Total, 1915	689,613	353,732	268,776	1,312,121	
January	65,314	39,905	35,684	140,903	
January February March	52,281 68,948	27,111 35,926	22,000	101,392	
March. April.	68,948	35,926 42,422	22,000 47,500 67,200	101,392 152,374 179,245	
May	96,479	62.486	78,500	937 465	
June. July. August.	90,450	71,541 57,930 62,405	52,000	213,991 162,972 184,412	
August .	70,042 79,448	62 405	35,000 42,559	162,972	
September	88,018	54,498	38,000	180,516	
October.	74.068	46,392	35,257-	155,717	68,641
October. November. December.	77,776 81,970	62,411 66,865	984 1,334	141,171 150,169	73,251 64,820
Total, 1916	914,417	629,892	456,018	2,090,327	
January	65,664	55,648	746	122,058	
February	54,237	33,498	461	88,196	
March	77,067	39,831	845 2,365	117,743 121,639	61,154
March April May	71,535 78,397	47,739 51.616	811	130,824	59,005 67,455
June	79,739	64,897	558	145,194	68,017
July. August September.	84,866	62,367 53,308	2,194 2,696	149,427 128,837	79,787
September.	72,833 51,165	55,272	1.719	108,156	58,425 58,733
October	74.198	49,900	3,806	127 904	76,607
November December	66,823 50,354	41,877 34,417	2,546 4,676	111,246 89,447	64,738 44,798
					44,750
Total, 1917	826,878	590,370	23,423	1,440,671	E1 000
January. February.	64,430 54,708	31,768 32,171	3,016 1,597	99,214 88,476	51,892 42,528
March	63,462	41,440	1,627	106.529	58 661
April May. June.	58,774	56,177	2.513	117,464 127,009 131,013	62,816 57,609 57,694
June	75,047 63,955	48,751 65,065	3,211 1,993 3,279	127,009	57,609
July	62,908	45,826	3,279	1.12.013	55,824
August	61.762	58,606	3.402	123,770	54,679
August. September October	56,526 47,976	55,166 39,706	2,850 3,210	114,552 91,892	61,750 39,630
November.	68,664	47,830	4,130	120,624	51,454
December	60,419	54,426	2,737	117,572	66,177
Total, 1918	738,631	576,932	33,565	1,350,128	660,714
January	67,461	51,105 62,821 49,588	4,822	123,388 141,978 109,704	62,722
February March	76,063 55,800	62,821	3,094 4,316	141,978	80,851 47,471
April.	75,343	54.949	3,081	133,378	73,098
May	58,458	43, 201	2,217	103.876	70.864
April May June July	59,089	42,877	1,522	103,488 85,871	44,250 30,545
August	39,118 78,172	46,087 44,892	1,434	124,498	59,989
Total, 1919	509,509	394,520	21,152	926,181	469,790
Grand total to September 1, 1919	3,936,263	2,617,372	857,898	7,413,533	

PORT OF BALBOA.

Month.	Cargo received.	Cargo dispatched.	Cargo rehandled.	Total handled.	Cargo stevedored.	Total handled both porta
1914.						
August. September. October. November.	27,160	27,127		54,287		143,094
September	11,960	9,508 10,709 12,379		21.468		92,223 90,188 96,542
October	11,436	10,709		22,145 35,542		90,188
November	23,163	12,379		35,542		96,542
December	17,027	16,411		33,438		128,938
Total 1014	90,746	76,134		100 000		550,985
Total, 1914 1915. January. February. March	90,740	10,104		166,880		000,800
January	23,020	17 596		40 616	18 783	135, 791
February	20,445 21,025	17,596 18,647 22,076		40,616 39,092 43,101	18,783 18,967 18,796	135,791 116,892 131,501
March	21,025	22,076	}	43,101	18,796	131,501
April May June July August September October November	29,469	23,248		59 717	23,225	169.539
May	19,274 19,756	20,086		39,360	1 20.530 1	150,212
June	19,756	17,776		39,360 37,532 36,851	19,189 5,147	150,212 169,278 162,344
July	20,236	16,615		36,851	5,147	162,344
August	15,144	11,173		26,317		100,013
October				15,434 60,043		156,613 102,594 186,800
November				94,000		244,545
November			9,540	55,569		136,644
						100,011
Total, 1915				543,632		1,855,753
1916.				**O 210		011 019
Fahruary			15 441	70,310	10 100	211,213 170,793
February. March.			15.441 17,650	69,401 69,483	12,180 5,054	221,857
April			18,602	26,488	1,603	205,733
April May June			3,441	6.060	3,369	243,525
June	1,472	4,732	590	6,060 6,794	1,689	243,525 220,785
July	6.414	1,336	796	8.546	282	. 171,518
August	2,738 3,053	621	770	4.129	4,330	188,541
July, August September, October	3,053	1,019	98	4,170 18,284	501	184,686
Uctober	10,545	393	7,346	18,284	665	174,001
November	12,657 3,315	1,492 39	5,704 228	19,853	1,024 707	161,024 153,751
	3,313	39	440	3,582	101	100,701
Total, 1916. January 1917. February March	l			307,100		2,307,427
1917.				001,100		
January	11.270	920	600	12,790	2,491	134,848 98,259
February	9,310	753		10,063	179	98,259
March	3,408	7,900		11.308		129,051
April May. June	2,560	238		2,798 7,266 4,726	528	124,437
Inno	4,664 3,575	2,602		4,200	2,225 1,719	138,090 149,920
July	2,365	1,151 784		3,149	479	152 576
August	869	214		1,083	483	152,576 129,920
July. August. September.	2,199	214 202		2,401	377	110,557
October	1,528	2 003		2,401 3,531	2,972	131,435
November	12,814	7,331		20.145	12,171	131,391
December	2,781	1,484		4,265	176	93,712
Total, 1917	57,343	25,582		83,525		1,524,196
Total, 1917	01,010			00,000		
January	3,506	1,548		5,108	3,263	104,322 £2,910
February	2 303	2,131		4.434		22,910
March	2.994	169		3,093	148	109 629
March. April. May.	7,697 3,945	1,032		8,728	561	126,192 133,306 135,936
May	3,945	2.353		6,297	306	133,306
July	3,459	1,464		4,923	2,846	135,930
Anmet	1,788 3,137	541 752		2,329 3,888	835 2,680	114,342
June. July August September Outshee	1,854	2,093		3,947	375	127,658 118,499
October	7,924	6.799	1,021	15,744	14,199	107,636
November	1,401	6,799 830	118	2,359	452	122,983
October November December	5,282	3,771	218	9,271	7,839	126,843
Total 1018	45,220	23,483		70,121	33,504	1,420,249
Total, 1918	4.5,220	20,400		10,121	33,304	1,920,240
January	4,437	3,951	68	8,456	3,106	131,844
February	1,283	3 200		4,573	3.234	146,551
March	11,480	2,047	8,110	21.637	3,586	131.341
February March April May	5,495	3,020	2,630	1,145 4,888	174	134,523 108,764
Iuno	4,067	551	270	4,888	253	108,764
JuneJuly	676 7,646	751	5,323	1,487	176	104,975
July. August.	8,117	1,510 3,150	4,337	14,479 15,604	134 1,917	100,350 140,102
Total, 1919	43,201	18,270	20,800	72,269	12,580	998,450
Grand total to September 1, 1919				1,243,527		8,657,060
				,,		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Toll Charges in Connection with Double Bottom Spaces.

Because of a decision of the Commissioner of Navigation, received since the publication of THE PANAMA CANAL RECORD of last week, the statement in that issue on this matter is amended to read as follows:

Under the present method of assessing tolls on loaded merchant vessels, transiting the Panama Canal, spaces in cellular double bottoms are, in effect, not charged for even when such spaces are used to carry fuel oil, boiler feed water, drinking water, or cargo, when the Panama Canal net tonnage times \$1.20 exceeds the United States net tonnage times \$1.25.

The above does not apply, however, to a merchant ship in ballast.

Notice to Mariners.—Serrana Bank Light Relighted.

THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., October 13, 1919.

CIRCULAR No. 643-67:

Serrana Bank Light, previously reported out of commission, was relighted on October 10, 1919:

Light-White, flashing, 0.5 second light, 4.5 seconds dark.

Latitude 14° 16′ 40″ north. Longitude 80′ 23′ 50″ west.

CHESTER HARDING, Governor.

Cargo Declarations.

The cargo declaration referred to in Circular No. 679-9, dated September 29, as acceptable in place of a manifest from ships making the transit of the Canal but not handling cargo at its terminal ports, is a single sheet, folded once, giving four pages, each 8 by $10\frac{1}{2}$ inches. Over 90 classifications of cargo are listed, with spaces opposite for quantity, port at which shipped, and port at which to be discharged. The following instructions are printed at the top of the first page:

A copy of this form is handed to the master of each vessel arriving at Balboa or Cristobal for passage through the Canal, if he has not been previously provided with the form through the office of his steamship line. It should be filled in while the vessel is in transit (if not previously prepared) and delivered to the pilot at the opposite terminal port. Extra copies for future use will be supplied at the Canal.

Accurate information is desired concerning cargo that is important on account of its tonnage or value, though it is not expected that small and unimportant items of cargo

will be entered separately on the list.

In the case of ships carrying general cargo it is desired that the principal items be listed, and the remainder may be included under the designation "general."

Entries should be made in tons of 2,240 pounds wherever possible. Please give the value of treasure.

Addressing Mail for Ships at the Canal.

All mail for ships transiting the Canal or for ships touching at Canal ports is handled through the Cristobal, Canal Zone, post office and

should be addressed, "Cristobal, Canal Zone."

Mail addressed to Colon or Panama may miss connection, as ships at all times are in Canal waters. The attention of shipping interests is called to the fact that Cristobal and Balboa are the terminal ports of entry for Colon and Panama, and that ships arrive at and depart from Cristobal and Balboa, and not Colon and Panama.

It will be noted that this applies to all ships, including those which call only at Balboa in passing along the west coast. The Cristobal post office receives reports of expected arrival three times daily and forwards

to Balboa the mail for ships due there.

The Roosevelt Memorial.

Governor Harding has accepted the chairmanship of the Canal Zone branch of the Roosevelt Memorial Association and issues an invitation to the employees of The Panama Canal, Panama Railroad Company, and other residents of the Canal Zone and Republic of Panama to become subscribers to the memorial fund. It is the intention of the association to construct a monumental memorial at Washington, D. C. and establish a memorial park at Oyster Bay which will ultimately include Sagamore Hill, the old home of Colonel Roosevelt. It is a nonpartisan, nonpolitical cause. No one will be urged to contribute to the fund, the object of the association being simply to encourage and facilitate the subscriptions of those who desire to participate in the erection of these memorials.

The Governor has appointed a local chairman for each town and military post on the Canal Zone and for the cities of Panama and Colon through whom subscriptions to the memorial fund may be made. Arrangements have also been made whereby employees of The Panama Canal and Panama Railroad Company can have their subscription paid by collection from the pay rolls for the month of October or November if desired. It is intended to hold public meetings in each of the towns during the week of October 20-27, which is the time fixed for

the campaign throughout the United States.

The fact that Theodore Roosevelt took such a personal interest in the construction of the Panama Canal will serve to make the proposed memorial to him of unusual interest to Panama Canal employees, especially the older ones who now have the medal authorized by him for those employees who were here during construction.

Rates at Hotel Aspinwall, Taboga.

The following rates at the Hotel Aspinwall, Taboga, have been established, effective August 1:

established, chicothic riagast ri	
Employees: Dinner, lodging, and breakfast	\$2.00
Employeesper day	2.75
Children under 12 years of ageper day	1.25
Servants of employeesper day	1.50
Employees for stay of 7 daysper day	2.00
Reduction of 10 per cent on above rates for stay of 30 days. Reduction of	
10 per cent for families of four or more for over 7 days' stay.	
Nonemployeesper day	3.50
Children of nonemployees (under 12 years of age)	1.50
Servants of nonemployeesper day	1.75
Meals:	
Breakfast	1.00
Luncheon	1.25
Dinner	1 25
	. 40

Schedule of Official Jitney Service.

Following is the schedule of the official jitney plying between Balboa shops and the Ancon police station, carrying employees in the conduct of official business, upon presentation of passes issued by the Chief Quartermaster, or of the "special pass" issued by the Governor:

FROM ANCON POLICE	E STATION TO BALBOA SHOPS.
Police Station	Leave on the hour and half hour.
Administration Building	Leave 7 minutes and 37 minutes after the hour.
Balbea Commissary	Leave 10 minutes and 40 minutes after the hour.
Balboa Shops	Arrive 15 minutes and 45 minutes after the hour.
FROM BALBOA SHOPS	TO ANCON POLICE STATION.
Balboa Shops	Leave 15 minutes and 45 minutes after the hour.
Port Captain's Office	Leave 18 minutes and 45 minutes after the hour.
Balboa Commissary	Leave 20 minutes and 50 minutes after the hour
Administration Building	Leave 25 minutes and 55 minutes after the hour.
Ancon Police Station	Arrive on the hour and half hour.

Prices of Various Commodities for Ships.

Commodities of especial interest to ships' operators and for sale by the storehouses of The Panama Canal, are listed below and base prices are quoted, effective October 1, 1919, for sales to individuals and companies. Except as otherwise noted, all prices given are subject to a surcharge of 25 per cent.

Commodity.	Unit.	Price.
Brass, bar	Lb.	\$0.45
Brass, sheet.	Lb.	.62
Bronze, Tobin	Lb.	.41
Departments of United States Government, (includes surcharge and bags)	Bag	1.1925
Credu. for empty bags returned. Individuals and companies (includes surcharge and bags)	Bag	.085
Individuals and companies (includes surcharge and bags)	Bag	1.765
Credit for empty bags returned	Bag	.25
Departments of United States Government, (includes surcharge and bags)	Bag	1.0475
Credit for empty bags returned Individuals and companies (includes surcharge and bags)	Bag	.085
Credit for empty bags returned.	Bag Bag	1.58
Charcoal	Cwt.	.25 .75
Copper, bar. Gasoline, in drum (motor grade).	Lb.	.41
Gasoline, in drum (motor grade)	Gal. Lb.	.38
Lead, pig.	Lb.	.11
Lead, pig Lumber, yellow pine or fir (except ceiling)	M St B M	65.00
Lumber, eeiling, 1 by 6 Lumber, flooring, 1 by 3 and 1 by 4. Metal, yellow. Nuts, iron, machine, hexagonal.	M ft. B.M. M tt. B.M.	74.00 77.00
Metal, vellow.	Lb.	.60
Nuts, iron, machine, hexagonal	Lb.	.20
Nuis, iron, machine, square	Lb.	.20
Nails, common, wire. Nails, galvanized.	Lb.	.08
Oakum, Navy, spun	Lb.	.08
Oakum, Navy, spun Oakum, Navy, unspun Fuel oil, at Balboa and Cristobal—in bul.;	Lb.	.17
United States Army and Navy, and vessels operated by same.	42-gal. bbl.	*2.00
United States Army and Navy, and vessels operated by same. Commercial vessels and individuals and companies.	42-gal. bbl.	*2.00
Individuals and companies from tank No. 116, Balboa	42-gal. bbl.	*2.04
United States Army and Navy and vessels operated by same	42-gal. bbl.	*2.25
Commercial vessels and individuals and companies	42-gal. bbl.	*2.25
Oils, greases, and lubricants: Oil, air compressor cylinder	Gal.	.52
Oil, air compressor cylinder. Oil, ammonia cylinder. Oil, burning, "Colza". Oil, cylinder, dark marine, "Texas". Oil, cylinder, dark marine, "Texas". Oil, cylinder, der machine, steam, "Garnett". Oil, engine, "Arctic". Oil, engine, "Arctic". Oil, engine, "Cetus"—in tins. Oil, engine, "Cetus"—in barrels. Oil, gas engine, "Texas," heavy—in drums. Oil, gas engine, "Ursa"—in cases. Oil, gas engine, "Ursa"—in drums. Oil, kerosene—in drums. Oil, kerosene—in drums. Oil, kerosene—in tins.	Gal.	.37
Oil, burning, "Colza"	Gal.	1.08
Oil gylinder ice machine steam "Garnett"	Gal. Gal	.75 .80
Oil, engine, "Arctic".	Gal.	. 63
Oil, engine, "Cetus"—in tins	Gal.	.55
Oil, engine, Cetus —in parreis	Gal.	.475
Oil, gas engine, "Ursa"—in barrels	Gal.	.45
Oil, gas engine, "Ursa"—in cases.	Gal.	.84
Oil, kerosene—in drums	Gal.	.65 .20
Oil, kerosene—in tins.	Gal.	.27
Oil, linseed, boiled.		1.80
Oil, linseed, raw	Gal.	1.80
Oil, lard.	Gal.	1.90
Oil, linseed, raw. Oil, locomotive, engine. Oil, lard Oil, marine engine, "Gargoyle" Oil, marine engine, "Atlas". Oil, marine, dark, cylinder, "Vacuum," W. I. Oil, marine, engine, "Dolphin" Oil, marine, engine, "Dolphin" Oil, marine, engine, "Texas" Oil, "Mineral Seal" Oil, stationary engine. Oil, stationary engine. Oil, sperm. Oil, sperm. Oil, signal	Gal.	.93
Oil marine dark evlinder "Vocuum" W I	Gal. Gal.	1.00
Oil, marine, engine, "Dolphin".	Gal.	.33
Oil, marine, engine, "Texas"	Gal.	.55
Uil, "Mineral Seal"	Gal. Lb.	.27
Oil, stationary engine.	Gal.	.31
Oil, sperm	Gal.	2.42
Oil, signal Oil, valve		1.10
Oil, car	Gal.	.45
Vaclite		.18
Wax, lamp. Grease, black, gear	Lb. Lb.	.09
Grease, black, gear Grease, yellow, cup. No. 3. Grease, yellow, cup. No. 5. Grease, rod, special	Lb.	.10
Grease, yellow, cup, No. 5.	Lb.	12
Grease, tunnel, bearing.	Lb. Lb.	.18 .17 .19
Tallow	. Lb.	.19
Turpentine	. Gal.	1.05
Turpentine substitute	Gal.	.37

Commodity.	Unit.	Price.
Vaseline Paint, lead, white, dry Paint, lead, white, in oil Paint, sine, white, dry	Lb Lb. Lb. Lb.	\$0.09 .10 .12 .13
Paint, zinc, white, in oil. Paint, zinc, white leaded, 35 per cent in oil. Rope, Manila, ‡" diameter. Rope, Manila, ‡" diameter.	Lb. Lb. Cft. Cft.	.18 .16 .08 .75
Rope, Manila, \$" diameter.	Cft. Cft. Cft. Cft. Cft.	2.85 4.50 4.75 6.00 7.50
Rope, Manila, 1 4" diameter. Rope, Manila, 1 4" diameter Rope, Manila, 1 2" diameter Rope, Manila, 2 d' diameter Rope, Manila, 2 d' diameter.	Cft. Cft. Cft. Cft. Cft.	10.00 18.00 27.00 33.00 40.00
Rope, Manila, 3½' diameter. Rope, Manila, 3½'' diameter. Steel, bar † Steel, spring. Steel, old rolled, rd.	Cft. Cft. Lb.	80.00 100.00 .05 .10
Steel, sheet. Steel, structural (angles, beams, etc.) Tin, block. Tin, banca. Tin, sheet.	Lb. Lb. Lb. Lb. Lb.	.05 .05 .78 .80
Washers, cut. Waste, white and colored. Zinc, boiler plate § by 6 by 12.	Lb. Lb. Lb.	.10 .17 .12

^{*} No surcharge.

Weather Conditions in September, 1919.

The rainfall during the month of September was above the average at 11 stations and deficient at 8 stations. Totals ranged from 8.33 inches at Miraflores to 22.52 inches at the Indio station on the upper Chagres. The greatest amount of precipitation on any one day was 3.96 inches, at Monte Lirio on the 8th.

The estimated average rainfall over the Gatun Lake watershed was 12.49 inches, compared with a 9-year mean of 11.87 inches, and over the Chagres River basin

above Alhajuela it was 14.10 inches compared with an 18-year mean of 12.58 inches. A severe wind storm occurred at Gamboa on the afternoon of September 26, during which a maximum velocity of 50 miles an hour was recorded from the northeast. Two unloading cranes at the Gamboa gravel plant were overturned and damaged to the extent of approximately \$20,000.

The atmospheric pressure, relative humidity, and wind movement were slightly below normal, while the air temperature was below normal everywhere except at Colon. The evaporation was above normal over the Atlantic Coast and Gatun Lake,

but below on the Pacific Coast.

A number of fogs were observed at interior stations, most of which were light

and lifted or were dissipated by 9 a. m.

Gatun Lake hydrology.—Mean elevation of Gatun Lake was 85.22 feet above sea level; maximum, 85.54 on the 30th, minimum, 85.01 on the 11th; evaporation from Gatun Lake surface, 4.372 inches; rainfall on Gatun Lake drainage basin, 12.49 inches; total yield of Gatun Lake watershed, 7.63 inches on watershed. The total yield amounted to 61 per cent of the rainfall.

The following table given as summary of the weather conditions for the month:

	uced 24	Temperature.						Precipitation.			Wiod.				
Stations.	Pressure (reduction to mean of 2 hours).	Mean.	Maximum.	Date.	Minimum.	Date.	Mean relative humidity.	Total inches.	Station aver- age.	Days with .01 inch or more.	Total move- ment (miles).	Prevailing direction.	Max. velocity in miles.	Direction.	Date.
Balboa															
	29.834		80		71	Sep. 27	86.9		7.89	21		N.W.	22	S.	Sep. 13
Colon	29.830		90		73	Scp. 4	84.2		12.65		4,928		27	N.,	Sep 7
Gamboa		79.3	93		71	Sep. 2*		9.39	10.38	20	3,111	N.E.	50	N. E.	Sep. 26
Gatun		80 4	90	Sep. 15	73	Sep. 1		8 42	10.05	18	4.397	S.E.	24	S. E.	Sep. 24

^{*} And other dates.

[†] Steel now on hand purchased at a cost over .05 lb. will be given the purchase price.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubbouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286):

Dictating-machine operator (male and female); \$1,100 to \$1,400 a year; No. 475; November 7 and December 14, 1919; form 304; age, at least 18 years.

Typist (male and female); \$1,100 a year; No. 300-amended; October 26 and December 7, 1919, and January 11, 1920; form 304; age, at least 18 years.

Clerk with knowledge of stenography (men and women); \$1,200 a year; No. 300-amended; October 26 and December 7, 1919, and January 11, 1920; form 304; age, at least 18 years.

Local and assistant inspector of boilers (male); \$2,100 to \$2,500 a year; No. 270-amended; November 7 and 8, 1919, and January 11 and 12, 1920; form 1087; age, at least 25 years but under 55 years.

Local and assistant inspector of hulls (male); \$2,100 to \$2,500 a year; No. 270-amended; November 7 and 8, 1919, and January 11 and 12, 1920; form 1087; age, at least 25 years but under 55 years.

Electrical engineer (male); \$2,400 to \$3,600 a year; No. 394-amended; November 11, 1919; form 2118; age, no limits.*

2118; age, no limits.*

Assistant electrical engineer (male); \$2,000 to \$2,400 a year; No. 394-amended; November 11, 1919; form 2118; age, no limits.*
Electrical assistant (male); \$1,500 to \$2,000 a year; No. 394-amended; November 11, 1919; form 1312; age, no limits.*

Specialist in industrial and economic relations in education (female); \$3,500 a year; November 11,

Specialist in industrial and economic relations in education (female); \$3,500 a year; November 11, 1919; form 2118; age, no limits.*

Deputy chief, U. S., game warden (male); \$2,500 to \$3,000 a year; November 4, 1919; form 1312.*

Assistant in date investigations (male); \$1,000 to \$2,250 a year; November 7, 1919; form 1312; age, at least 21 years but under 50 years.

Plant engineer (male); \$5,000 a year; November 11, 1919; form 1312; age, under 45 years.*

Assistant auditor (male and female); \$1,400 to \$1,800 a year for grade I, and \$2,000 to \$2,500 a year for grade II; November 21, 1919; form 1312; age, at least 20 years but under 45 years.

Assistant chief chemist (male); \$3,000 to \$4,000 a year; November 11, 1919; age, no limits.*

Solar radiation assistant, Weather Bureau (male), \$1,080 to \$1,200 a year; form 304; age, at least 18 years, but under 55 years.

18 years, but under 55 years Junior irrigation engineer (male); \$1,440 to \$1,800 a year; November 9, 1919; form 1312; age, under 35 years.

years.

Research operator--metallurgical (male); grade 1, \$1,500 to \$2,000 a year; grade II, \$2,000 to \$2,500

a year; November 4, 1919; form 1312; age, at least 21 years.*
Predatory animal Inspector (male); \$1,500 a year; No. 487, November 4, 1919; form 2118; age, at least 25 years but under 45 years. *

Drainage engineer (male); \$1,800 to \$2,100 a year; No. 476; November 4, 1919; form 1312; age, at least 25 years but under 45.*

Wet plate process photographer (male); \$1,500 a year; No. 488; November 11, 1919; form 1312; age, at least 20 years.* Forest ranger (male); \$900 to \$1,200 a year; No. 474; October 27, 1919; form 1312; age, at least

Porest ranger (male); \$900 to \$1,200 a year; No. 474, Chief of Division of Relations with States (male and female); \$3,500 to \$4,500 a year; No. 470-supplemental; November 4, 1919; form 2118.*

Circular 465 regarding examination for artist, Public Health Service, Treasury Department; \$1,800 a year; October 14, 1919; form 1312; has been changed to include women as well as men.

Supervising assistant and inspector (male and female); \$2,800 to \$3,600 a year; No. 470-supplemental; November 4, 1919; form 2118.*

Eield agent (male and female): \$1.800 to \$3,050 a year; November 4, 1919; form 2118.*

Route Service Jitney-Cristobal-Mt. Hope.

The following is the schedule of the official jitney service between the Terminal building at Cristobal and Mount Hope. Cars stop at the office of the Commissary Division each way:

Leave Termi	nal Building.	Leave Mo	unt Hope.
A. M.	P. M.	A. M.	P. M.
8.00 8.30	12.30 1.00	8.15 8.45	12.45
9.00	1.30	9.15	1.45
9.30	2.00	9.45	2.15
10.00 10.30	2.30 3.00	10.15 10.45	2.45 3.15
10.30	3.30	10.43	3.45

Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

The cable address of The Panama Canal, on the Isthraus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

Mail for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

Date given for nonassembled examinations is the last day for filing applications and they must be in the hands of the Commission at Washington prior to the hour of closing business on that day.

Official Circulars. Additions to Commissary Stock, Suiting: \$0.84 Restriction of Hunting. 1.20 THE PANAMA CANAL. Umbrellas, men's, rustless, 10 ribs, 26", ea Men's gun metal bals, Goodyear welt, EXECUTIVE OFFICE, 3.00 Men's gun metal bals, Goodyear welt, Strand last, pr. Men's black glazed kid Oxford, Goodyear welt, Balfour last, pr. Men's gun metal calf Oxford, invisible eyelets, Goodyear welt, Balfour last, pr. Men's Norwegian veal veget tanned, fancy Oxford, Goodyear welt, Strand last, pr. Men's Norwegian veal veget tanned, fancy ford, Goodyear welt, Campus last, pr. Men's white sea island duck blucher Oxford, Goodyear welt, Campus last, pr. Men's black kid bals, polo last, pr. Men's black kangaroo kid Oxford, polo last, pr. BALBOA HEIGHTS, C. Z., October 9, 1919. To all concerned—Effective this date, circulars to all concerned, dated December 12, 1918, and August 5, 1919, granting permission to hunt on 10.70 9.15 August 5, 1919, granting permission to hunt on Sundays and holidays within that part of the Canal Zone lying west of the Canal between the Cocoli River and the Paraiso-Arraijan trail, and south from the Cocoli River to the coast, respectively, are hereby revoked. This is necessary owing to the large number of cattle now in this area, and consequent danger to the men and the live stock from hunting. 9.15 9.75 7.55 7.55 Therefore, on and after this date all hunting is last, pr. Men's, Russia calf Oxford, city last, pr. . . Women's black glazed kid opera pumps, pr 7.90 prohibited within that part of the Canal Zone lying west of the Canal south from the Carabali 7.95 7.05 River to the coast. Women's black glazed kid beaded pumps, CHESTER HARDING, 7.70 Governor. Candy, hard, house party, Farley, 20-oz., .73 Correspondence Addressed to Army or Navy par... Dressing, salad, Durkee's, 3-oz., bot... Olives ripe, Premier XXX, 15-oz., jar... Peaches, sliced, 10s tin... jar.... .12 Headquarters. 44 THE PANAMA CANAL, 1.40 Aerated waters and beverages, grape juice, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., October 7, 1919. .26 TO HEADS OF DEPARTMENTS AND DIVISIONS: .11 Letters and correspondence prepared by depart-.11 ments and divisions and addressed to the Commanding General of U. S. Troops on the Isthmus, Ancon, or to the Commandant, Fifteenth U. S. Naval District, Balboa, will be signed by the .02 2.10 tocrat, ea Razors, Gillette safety, Milady Decol-lette, gold plated, ea Razors, Gillette safety, packed edition No. 4.40 Governor. Routine letters and correspondence intended 4.40 for Army or Navy headquarters on the Isthmus which are not of such importance as to call for signature by the Governor, may be signed by heads of departments and divisions, in which Razors, Ghiette safety, packet earlien No. 20, silver plated, ea. Razors, Gillette safety, standard combination, set No. 00, silver plated, ea. Trunks, Army lockers, ea. Books, dictionary, Webster's, ea. 4.40 6.60 neads of departments and divisions, in we case they may be addressed as follows: The Adjutant, Office of Chief of Staff, Panama Canal Department, Ancon, C. Z. 10.45 1.40 Combs, men's, ivory, ea... Embroidery, cotton, yd... .05 Stationery: Paper, typewriter, second sheets, unglazed, 8" x 103", quire (24 sheets). Paper, typewriter, white bond, 8" x 10½", quire (24 sheets). Cream, evaporated, "Rico." 15-oz. tin... Cigarettes, Lucky Strike, 50s tin... Tobacco, Edgworth, sliced plug, 2-oz. tin... Mustard, prepared, ½-gal, jar... (5 cents allowed for return of empty jar) Sugar, loaf, 5s, etn... Aerated waters and beverages: Grape juice, A. O. B., individual, bot... Cigars, Golofina perfectos, ea.... Athletic goods: Books, club score, cricket, ea. Stationery: or Aide to the Commandant, 15th U. S. Naval District, Balboa, C. Z. .03 .05 .40 By direction of the Governor. .32 C. A. MCILVAINE, Executive Secretary. .80 Steamship Crews Riding on Engines and .64 Cars. PANAMA RAILROAD COMPANY, .12 0.0 OFFICE OF MASTER OF TRANSPORTATION. BALBOA HEIGHTS, C. Z., October 2, 1919. Books, club score, cricket, ea..... 1.05 CIRCULAR No. 1382: 3.10 Conductors, Engineers, Yardmasters.—Rej has been made to this office that some of Yardmasters .- Report Cups, drinking, pint, ea. Dinpers, laundry or suds. ea. Earthenware, (Guernsey) bowls, mixing, ea Knives, mincing, double blade, ea. Pans, pudding, 2-quart, ea. Pans, pudding, 4-quart, ea. Pans, muffin (8 plain cups), ea. Pans, rising, 10-quart, ea. Pans, mountain cake, ea. Pouches, tobacco, red rubber, ea. Wax prepared, liquid, pint, bot .04 .53 Cristobal yard crews are allowing employees of 1.40 steamship crews to pass and gines and cars. This must be discontinued at once, as such practice if allowed to continue will result in considerable smuggling and pilfering. W. J. BISSELL, Acting Master of Transperiation. steamship crews to pass through the yard on en-.09 .12 .19 .25 .08 .14 Wax, prepared, liquid, pint, bot... Wheel, toy, ea.... .54 Syrups for Retail Trade. Wheel, toy', ea. Men's white basketball bals, pr. Men's white tennis bals, Klay Kort, pr. Men's white tennis bals, Klay Kort, pr. 6.90 THE PANAMA CANAL, 3.00 SUPPLY DEPARTMENT, 2.25 CRISTOBAL, C. Z., October 7, 1919. Men's work shoe, duck top, rubber soles, pr MEMORANDUM No. 760-234: Men's white canvas Oxfords, pr. 6.60 Concentrated orange and lemon syrups are now offered for sale at 50 cents per quart bottle, 5 cents being refunded for return of empty bottle. Women's black glazed kid chrome tanned blucher Oxfords, pr., 8.20 Women's black glazed kid chrome tanned Please place orders on wholesale groceries for your requirements. Bottles are packed 12 to each case. bals, pr. 10.40 Women's chrome tanned Russia calf Ox-8.20 J. J. JACKSON, General Manager, Commissary Division.

shoes, pr.....

4 80

COMMISSARY NOTES.

Tailoring.

The increase in cost of labor and all items entering into the composition of suits has risen to such an extent that the Commissary Division is obliged to make a slight increase in prices in its tailoring shops, which will be announced in the near future.

Tricycles.

Children's vehicles are not to be found in the market at present. The commissary purchasing agent has advised that tricycles on order will be delayed for that reason. Following a period when toys, etc., were in small request has come a time when the manufacturers are entirely unable to cope with the demand.

Pottery.

Deliveries of pottery from a contractor with whom the Commissary Division does considerable business, have been postponed due to conferences between the pottery workers and the potters on questions of wages which have resulted in curtailed production.

Flowers.

Roses, ferns, shrubs, crotons, etc., from the Corozal Hospital farms, are always available for purchase in the line stores. Roses are on sale every day at Ancon, Balboa, and Cristobal Commissaries and the managers of the other stores will be glad to order them for customers on request.

Holiday Market Situation.

The situation in the holiday markets this year is unparalleled. Buyers have been obliged to contend with the most adverse conditions. The commissary purchasing agent was able to make many fortunate purchases but a number of items are not to be had because of the present under-production in the face of world-wide shortages.

Hosiery.

It is fortunate that the Commissary Division is rather well protected on hosiery as it seems impossible to place orders now for delivery this year. One of the factories from which the Commissary Division buys has announced that any orders in transit are subject to confirmation for next year's delivery at increased prices.

The commissary purchasing agent has written that great difficulty is being experienced in obtaining fashioned silk hosiery for the holiday season. It is extremely scarce, he states, and when a quality stocking is found, a very high price is asked. None of the hosiery manufacturers or manufacturers' agents are said to be taking orders for fashioned stockings at this time.

Canned Salmon.

The commissary purchasing agent has advised that higher prices are anticipated on canned salmon and that from all indications it will be scarce. From a reliable source information has been received that the packers thus far have allotted only 15 per cent of contracts. The Surplus Division of the War Department had for sale none of this item but it has been found possible to purchase 500 cases of medium red salmon in New York.

Beverages.

In the preparation of its varied line of soft drinks, the Commissary Division, from the sterilization of the bottles until the product is ready for shipment, exercises a degree of care seldom met with elsewhere. All bottles pass through the automatic washer and sterilizer, first receiving a washing in soap suds, then with lye solution, three rinsings of hot water, and are finally steamed at 180° F., the entire process requiring five minutes. When cooled, the bottles are filled with the syrup and carbonated water automatically and are then capped by machinery. Hands do not come in contact with the product at any stage.

Directory of The Panama Canal.

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(Under immediate direction of the Governor as Head of the Department.) Headquarters, Balboa Heights.

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E. D. STILLWELL, Superintendent, Gatun Locks, Gatun.

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-, Assistant Engineer, Building Division.

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George J. Vanderslice, Recorder.

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MAJ. E. A. BOCOCK, Superintendent, Santo Tomas Hospital (Panama), Ancon.
CAPT. HENRY GOLDTHWAITE, U. S. A., Health Officer of Panama, Ancon.
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JULIO J. FABREGA, Member, Panama City.
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THE PANAMA CANAL RECORD



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Volume XIII.

Balboa Heights, C. Z., October 22, 1919.

No. 10.

Expenses of Operation and Maintenance Compared with Revenues.

During the fiscal year ending June 30, 1919, the ordinary expenses for the operation and maintenance of the Canal, including those of civil government and sanitation, amounted to \$6,112,194.77, as compared with \$5,920,342.94 in 1918 and \$6,788,047.67 for the year 1917. Overhead charges included in the cost of operation and maintenance in the year 1919 amounted to \$3,382,167.30, and include expenses of civil government, hospitals, quarantine, and sanitation, the Executive Department, the Accounting Department, the Washington Office, operation and repairs of storehouses and quarters, lighting of streets, operation of water and sewer systems and roads, etc.

Offsetting the total expenses for operation and maintenance are the amounts earned for tolls on vessels passing through the Canal, \$6,156,118.95; licenses and taxes, court fees, and fines, \$136,870.77; and profits on business operations, \$61,027.26, a total of \$6,354,016.98.

The revenues earned in excess of current expenses were accordingly \$241,822.21. The charges for operation and maintenance do not include, with minor exceptions, any allowance for depreciation of plant and equipment, nor do they include any interest charges on the capital investment. The actual cost of the Canal projects estimated for in 1908 up to June 30, 1919, is figured at \$365,415,985.18, which may be considered as the capital investment on that date.

Including expenditures in previous years, the aggregate of expenditures charged to operation and maintenance of the Canal to June 30, 1919, was \$30,109,494.46. The revenues offsetting this amounted to \$25,490,803.71, less approximately \$75,000 yet to be refunded on account of erroneous collection of tolls. The recorded deficit in operation and maintenance for the period of Canal operation to June 30, 1919, was therefore \$4,618,690.75 plus about \$75,000, or approximately \$4,693,690.75.

The cost of operation and maintenance and the revenues earned during the period of Canal operation, with the variations in the deficit in this account, are shown in this statement:

Fiscal year.	Maintenance and operation, including proportion of overhead.	Revenues.	Revenues in excess of expenses.	Expenses in excess of revenues.	Excess of revenues over expenses to date.	Excess of expenses over revenues to date.
1914. 1915. 1916. 1917. 1918. 1919.	6,999,750.15 6,788,047.60		\$220,255.60 491,500.34 241,822.21	\$151,412.23 4,411,207.77 979,648.90		\$151,412.23 4,519.177,92 5,352.013,30 4,860,512.96 4,618,690.75
Totals	30,109,494.46	25,490,803.71	953,578.15	5,572,268.90	J	4,618,690.75

*Tolls on barges towed through the Canal, prior to opening to commercial ships. †Heavy drop due to clesing Canal 6 months on account of slides.

Had the original Panama Canal rules of measurement and collection been used, the deficit of \$4,618,690.75 as of June 30, 1919, would

have been reduced to \$954,919.05. The loss through not applying the Canal rules alone, but limiting the collections by the proviso that the amount collectible shall not exceed the equivalent of that obtained by multiplying the net tonnage as determined by measurement for registry in the United States by \$1.25, amounted to \$3,663,771.70 to the end of the fiscal year 1919. By fiscal years the losses, counting the refunds made so far, have been:

Fiscal year.	Difference in tolls actually collected.	Refunds made later for excess collections dur- ing years.	Total.
1914. 1915. 1916. 1917. •	\$390,714.05 1,034,001.88	\$165,457.71	\$165,457.71 412,824.51 1,051,384.35 1,091,812.78 867,810.83
Totals	3,375,354.10	213,936.08	3,589,290.18

Adding to \$3,589,290.18 the sum of \$74,481.52 due to be refunded, disbursement of which had not been effected to the close of the fiscal

year 1919, gives a total loss to July 1, 1919, of \$3,663,771.70.

On the other hand, the provision that tolls on ships in ballast shall not be less than the equivalent of 75 cents per net ton, United States registry measurement, though levied on the basis of 72 cents per net ton, Panama Canal measurement, has resulted in slight gains to the Canal. Additional collections made under this ruling during the fiscal years 1918 and 1919 amounted to \$930.94, or slightly over two-fifths of 1 per cent of the refunds made during the same period on account of the change of rules.

These additional collections have in practically all cases been absorbed in the refunds, by deducting them from the amount due an operator as a refund. The checks drawn to pay refunds have accordingly represented the actual loss to the Canal under the changed system, which effects losses on most loaded vessels and gains on a part

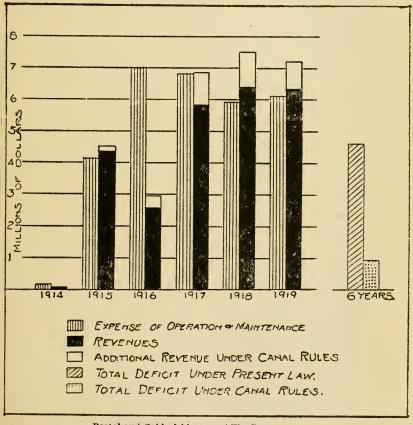
of those in ballast.

Authority to pay the refunds was contained in an Act of Congress dated June 12, 1917. The following table shows the refunds made to July 1, 1919, to various operators, as distributed among the fiscal years in which transit was made by the vessels for which refunds were allowed:

Operator.	1915.	1916.	1917.	1918.	1919.	Total.
W. R. Grace & Co	\$12,803.41	\$723.11	\$338.75			\$13,865.27
Panama Railroad Company	7,442.50					7,442.50
E. J. Dodge Co	622.55					622.55
Wittenberg Coal Co	360,00					360.00
Luckenbach Steamship Co	8,855.25					8,855.25
United States Shipping Board						3.60
Norton Lilly & Co	7,693,02	5 922 35	25.00			13,640,37
Wessel Duval & Co	5,997.45	713.75				6.711.20
Funch Edve & Co	1,529.50	682.50				2,212.00
United States Steel Products Co	15,517.65	548.75				16,066.40
Barber & Co	6,542.70					6,542.70
Dodwell & Co	2,765.05	255,85				3.020.90
Pacific Steam Navigation Co	9,632.10	200,00				9,915.10
Mitsui & Co					210.10	407.50
Sudden & Christensen	10 124 00		201.00			10,161.60
Gaston, Williams and Wigmore.	10, 104.00	21.00	1 975 20			1.275.30
Bruusgaard Kiosterud						11.80
United States & Australia S. S. Co.	496.25					496.25
			- · · · • • • • · · · · ·			3,096.65
J. L. Mowinckel	3,096.65					6,288.65
Emery Steamship Co	6,288.65					
Fred Linderman	1.276.90					1,276.90
American-Hawaiian S. S. Co	1,341.25					1,341.25
W. Andrews & Co	6,331.05	2,758.05		*********		9,089.10
United Fruit Company	29,154.05	2,439.20		\$127.50		31.720.75

Operator.	1915.	1916.	1917.	1918.	1919.	Total.
British Admiralty	\$7,209.19					\$7,209.19
International Banking Corporation			\$25.92	\$38.16		64.08
Commercial National Bank						6.25
Union Oil Company						1 306.75
Swayne & Hoyt	984.10					984 10
Hinds, Rolph & Co	274.35					274.35
J. R. Hanify	65.15					65.15
M. E. Kinsley					84 00	4.00
Booth & Co			17.50			17.50
Barr, Crombie Co			10.80			10.80
Tatem Steam Navigation Co				1.042 13		1.042.13
Golden Gate S. S. Co	665.45					665.45
Payne & Wardlaw	10,733.63	\$1,057.00				11.790 63
Anglo-American S. S. Co	5,129.35					7,731.35
Peruvian Steamship Co	802.80					27,945.70
McBeth & Co	395.06	1				395.06
Totals	165,457.71	22,110,46	17,382.47	9 701 00	204 25	213,936.08

The accompanying chart shows graphically the relation, by fiscal years, between the expenses of maintenance and operation of the Canal, and the revenues derived; and shows also the relation of the additional revenue which would have been derived under the application of the Canal rules:



Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

Mail for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight October 18, 1919.

THROUGH THE CANAL-ATLANTIC TO PACIFIC.

1	Canal	Net	5,298	5,722	1,732 4,230 5,342	4,658	3,664 4,110	2,011	6,910	1,768 4,954 1,976	6,792	3,975 1,312 3,969	1	3,870 1,688 1,671 4,494	
	Panama Canal tonnage	Gross	7,285		2,618 5,963 7,418	6,529		2,952		2,855 6,914 2,939	9,489	5,694 1,961 5,371	-	1,241 5,178 2,655 2,635 1,635	
ľ	E E		8,136		6,784		5,869		12,01711,519	3,000		2,840 1,500 1,505	-	6,000 2,900 2,802 (d) 5,594	
	d	OSL S	Navy coal	Coal, mavy supp. 10, 838			General Steel and general Case oil		Coal	General General Steel		Gen'l and mach. General		General Lumber, etc. Nitrate of soda. Nitrate of soda. Lumber General	•
	Ç	100 14	Pearl Harbor Buenaventura.		IquiqueShanghai	Yokohama	Valparaiso San Francisco. Adelaide	Arica. San Diego	San Diego San Diego Balboa	Manila	Valparaiso	Valparaiso Valparaiso Callao		Cristobal Savannah Wilmington Kingston (c) Liverpool	
		HTOTA	New York	Newport News New York	Norfolk Beaumont Pro. Lobos	New York. Norfolk.	Cristobal New York New York	Gijon	Philadelphia Philadelphia Norfolk		Rotterdam			Guayaquil Victoria Antofagasta Antofagasta Manaimo Takahuano	
ರೆ		draft	28.3	32.0	17 27 27	25.2	25.0 24.0 6.0 74.0	2=	29.0 29.0	222	16.0	17.0 17.0	ĵ.	14.3 22.6 22.6 16.0 23.0	
PACE		Beam	55.0 29.0	54.0		54.0	44.3 48.6 52.0	30.0	30.0		83.0		TLANT	35.1 52.0 46.0 46.2 40.5	
MTIC T	•	Length Beam	395.5	409.0 542.0	267.3 406.0 435.0	400.7	379.0 370.0 405.0	$\frac{310.0}{315.0}$	315.0 315.0 536.0	251.0	210.0 447.0 216.0	360.0 375.0 216.0	A OT OF	216.0 385.5 267.3 266.5 195.8	
THROUGH THE CANAL—ATLANTIC TO PACIFIC.		Line	United States Shipping Board Colombian Maritime Company.	United States Shipping Board.	United States Shipping Board Anglo-Saxon Petroleum Co	United States Shipping Board	South American S. S. Line. United States Shipping Board Swan Hunter & Company	Naveera Guipt Cvanna. United States Navy.	United States Navy United States Navy Panama Railroad Steamship Line	United States Shipping Board	United States Shipping Board Royal Netherland S. S. Co	Tacine Steam narreament Company. W. R. Grace & Company. W. R. Grace & Company.	THROUGH THE CANAL—PACIFIC TO ATLANTIC.	Pacific Steam Navigation Co Harrison Line United States Shipping Board. United States Shipping Board. French Government.	Lachic Decam Favierdum Corre
		Nationality	American	American		American	Chilean American	Spanish	American American			American Swedish		British British American American French	
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*DEPARTURES

United States Shipping Board....

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(c) Copper, nitrate, wool, hides, etc. (f) 1,535,719 ft. B. M. (g) Sugar, nitrate, cotton, and general. (h) Wool, meat, eheese, tallow, etc. PORT OF CRISTOBAL.

	For	United States Army. Pagaman Railroed Steambip Litte. New York via San Juan. Panama Railroed Steambip Litte. New Criews and wayports. Panama Railroed Commissary. Royal Dutch West India Mail Co. Purited Pruit Company. Purited Pruit Company. Purited Pruit Company. Purited Pruit Company. Colombia.	
*DEPARTURES	Line	United States Army. Panama Railread Steambip L. United Fruit Company. Panama Railread Commissary Rayal Durch West India Mail United Fruit Company. Spanis Steamship Line. Inited Fruit Company. United Fruit Company.	
	Vessels	Marica Panana Heredia Middlebury Sugvesatit Letnis Antonio Lopez Carrillo Balchill	
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PORT OF BALBOA.

*ARRIVALS

*Other than ships passing through the Canal.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending October 18, 1919.

				Cargo-	
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
	0.1 11 14 11 0		0-1-110	Tons.	Tona
BalboaNeptune	Colombian Maritime Co United States Government		October 12		(*)
Avsen	United Fruit Company		October 13		435
Marica	United States Government		October 14		12
Panama	Panama Railroad Steamship Line Panama Railroad Commissary	October 12	October 15		3,066 77
Manavi	Pacific Steam Navigation Co	October 12	October 18		815
Heredia	United Fruit Company	October 13	October 15	1,779	199
Stuyvesant	Royal Dutch West India Mail	October 13	October 15	1841	57
Antonio Lopez	Spanish Line Royal Netherlands S. S. Line	October 14	October 16	435 310	148
Alkmaar	United Fruit Company	October 15	October 16	1.089	(*) 87
Baldbill	United States Shipping Board	October 15	October 17	7,000	(*)
Mantaro	Peruvian Steamship Line	October 15	811111122111	3,328	
Atenas	United Fruit Company	October 16	October 16	2.512	245†
Guatemala	Pacific Steam Navigation Co	October 18		2,312	

^{*} No cargo laded.

† Pounds.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending October 18, 1919.

		1		Cargo—	
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Balboa Ulysses Manavi	Colombia Maritime Co Panama Railroad Steamship Line. Pacific Steam Navigation Co.		October 12	12,017	Tons 22

Changes in Freight Rates to South Pacific Ports.

The Panama Railroad Steamship Line, with connecting carriers, has 'issued Supplement No. 1 to freight classification and tariff No. 28, publishing class and commodity rates from New York, N. Y., to South Pacific ports in Colombia, Ecuador, Peru, and Chile, effective September 30, 1919. Distribution of the supplement has been made and additional copies may be obtained from the offices of the line at 24 State Street, New York, or Balboa Heights, C. Z.

Distances to Victoria and Prince Rupert.

In connection with the table of distances recently distributed by The Panama Canal, a portion of which was reprinted in The Panama Canal Record of October 8, 1919, inquiry has been made as to the distances to Victoria and Prince Rupert, British Columbia. The distance from the Pacific terminal of the Canal to Victoria is stated by the Hydrographic Office of the Navy Department to be 3,962 nautical miles, and that to Prince Rupert, 4,425 nautical miles.

The distance saved by the Canal in the voyage to these ports, as well as Vancouver, from Liverpool is 5,666 nautical miles; from Hamburg and Antwerp, 5,528 miles; from Bordeaux, 5,376 miles; and from Gibraltar, 4,950 miles. Between the British Columbian ports and representative United States ports, the savings are as follows: Portland, Me., 7,651 miles; Boston, 7,661 miles; New York, 7,873 miles; Philadelphia, 7,948 miles; Baltimore and Norfolk, 8,020 miles; Charleston, 8,234 miles; Savannah, 8,267 miles; Jacksonville, 8,301 miles; Mobile, 8,839 miles; New Orleans, 8,873 miles; and Galveston, 8,946 miles.

Admission to Docks.

THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., October 4, 1919.

HEADS OF DEPARTMENTS AND DIVISIONS:

The following regulations, governing the admission to piers and docks are hereby published for your information and guidance:

1. Admission to piers or docks (Cristobal and Balboa) shall be limited strictly

to persons having legitimate business thereon.

2. Legitimate business necessitating admission to piers or docks is recognized in

the following cases:

(a) Officials of The Panama Canal or Panama Railroad, or officers of the Army or Navy, whose duties of a supervisory character require visits on their part from time to time to piers and docks.

(b) Officials of the Republic of Panama, or members of the diplomatic corps and

consular service (United States and foreign).

(c) Employees of the United States, The Panama Canal or Panama Railroad, whose duties require routine visits to piers and docks.

(d) Representatives of shipping interests or other responsible commercial estab-

lishments whose duties necessitate frequent visits to piers and docks.

(e) Contractors, or subcontractors (and their gangs) and employees of shipping or other responsible commercial concerns whose work requires habitual admission to piers and docks.

(f) Officers and crews of Army, Navy, and merchant vessels lying in port.

3. Identification under each of the foregoing headings shall be established in the following manner.

(a), (b), (c) and (f) above referred to upon proper identification by police officer

at the main entrance.

Representatives of shipping and commercial interests, and contractors or subcontractors and their foremen will be admitted upon annual pass issued by the Executive Secretary upon recommendation of the Captain of the Port after consultation with the Receiving and Forwarding Agent, the Chief Customs Inspector, and the Police District Commander. Silver gangs of the above concerns shall be checked in by their timekeepers or foremen at the main entrance.

Silver employees of the United States Government, The Panama Canal or Panama

Railroad, shall be checked in at the main entrance by timekeeper or foreman.

4. Persons not mentioned in the foregoing are denied entrance to piers and docks, except under special circumstances, which, in the opinion of the Captain of the Port, justify the issuance of a single trip permit, or in exceptional cases, of a permit for a reasonable period.

The Receiving and Forwarding Agent shall issue such passes as may be necessary

in connection with his duties.

The Chief Customs Inspector at each port shall issue such passes as may be nec-

essary in connection with his duties.

All persons visiting the docks (with proper pass) as escorts or companions of arriving or departing passengers shall keep clear of the dock aprons and of ship's gangways, and such persons must confine themselves strictly to the dock sheds.

Outgoing passengers will be permitted to embark at all hours, but vessels upon which such passengers have previously obtained transportation shall be required to

receive them on board immediately after their admission within the dock area.

All traffic, excepting employees of the United States Government, The Panama Canal and Panama Railroad traveling on official business to and from the coaling plant at Cristobal, must enter and leave via the main entrance at the Terminal

5. At the Cristobal Terminal all outgoing steamer freight originating in the cities of Cristobal and Colon shall be delivered through the Local Freight House. Delivery

at ship's side by private carrier is prohibited.

Incoming freight destined to the cities of Cristobal and Colon may be received at the team track at the main entrance upon proper pass issued by the Receiving and Forwarding Agent.

At the Balboa Terminal outgoing and incoming steamer freight shall be handled

in accordance with The Panama Canal Tariff as published from time to time.

Regulations governing the admission of duly licensed baggage wagons and carts to the dock area, and appropriate to the conditions obtaining locally at their respective terminals, shall be established by a board composed of the Captain of the Port, the Receiving and Forwarding Agent, the Chief Customs Officer, and the Police District Commander, in accordance with the principles stated herein.

Panama Canal, Panama Railroad, Army, Navy, and private trucks delivering supplies or delivering and receiving baggage from vessels moored to the dock, will be permitted to enter the dock area and dock sheds under the supervision of the dock foreman.

Public vehicles will be permitted to enter the dock area only when carrying a passenger or passengers entitled (under the foregoing rules) to admission to such area, or (without a passenger or passengers) at a reasonable time prior to the anticipated arrival of a passenger vessel. One driver only will be permitted to enter in each vehicle. Such vehicles, after having been passed into the area, may remain there awaiting other fares during daylight hours only. All such vehicles in the area awaiting fares shall park in locations indicated by the police or the dock foreman. Drivers will not be permitted to leave their vehicles at any time.

7. Private vehicles may enter the dock area when occupied by a person or per-

sons duly authorized to enter.

8. No passenger vehicle of any description shall be permitted to enter the dock sheds without proper pass from the Receiving and Forwarding Agent, and then only under the supervision of the dock foreman.

9. The speed of all vehicles entering the dock area must not exceed 12 miles per

hour, and within the dock sheds not exceed 4 miles an hour.

10. In the event of fire within the dock area, the fire-fighting apparatus and personnel shall be allowed unimpeded admission to the dock area and to the dock sheds. The same rule shall govern the admission of equipment and personnel for relief work in the event of emergencies in general.

11. The improper or unnecessary use of any dock pass shall be considered sufficient

cause for its revocation.

CHESTER HARDING, Governor.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286):

Balboa Heights (telephone 286):

Stenographer, typist, and stenographer-typist, Departmental Service (male and female); \$1,100 for typists, and \$1,200 a year for stenographers and stenographer-typists; No. 807-amended; December 7, 1919; form 304; age, at least 18 years.

Senior structural engineer, Grade 1 (male), \$3,000 to \$4,000 a year; senior structural engineer, Grade 2 (male), \$1,800 to \$2,700 a year; senior mechanical engineer, Grade 2 (male), \$1,800 to \$2,700 a year; (Interstate Commerce Commission); No. 504; form 1312; age, less than 60 years.†

Printer (male and female), bookbinder (male), pressman (male), electrotyper-finisher (male), electrotyper-molder (male), stereotyper (male); 75 cents an hour; No. 462-amended; forms 304 and 1745, 304 and 2109, 304 and 2105, 304 and 1747, 304 and 1747, 304 and 1747, respectively; age, at least 20 years.†

Tariff clerk (male); \$1,200 to \$1,500 a year; No. 329-amended; November 23, 1919; form 1312; age, at least 21 years but under 50 years.

Biological assistant (male), \$1,440 to \$1,800 a year; No. 483; November 11, 1919; form 2118; age, at least 20 years but under 45 years.*

Assistant in cotton testing (male); Grade 1, \$1,800 to \$2,400 a year, Grade 2, \$1,200 to \$1,800 a year; No. 255; November 18, 1919; form 2118; age, under 45 years.*

Metallographist (male); \$7.60 per diem; No. 508; November 25, 1919; form 2118; age, under 40 years.*

40 years.

Junior mechanical engineer (male); Engineer Department at Large; \$1,800 to \$2,000 a year; No. 501; November 11, 1919; form 1312; age, no limits.*

Lithographer (male); \$1,000 a year; No. 498; November 11, 1919; form 304; age, at least 20

years.* Years." Chief metallurgical chemist (male); \$3,000 a year; assistant chief metallurgical chemist (male); \$8.80 a day; metallurgical chemist (male and female); \$6.00 a day; assistant metallurgical chemist (male and female); \$1.2 a day; November 25, 1919; age, no limits; form 1312.*

Assistant economist (male and female); \$1,800 to \$2,700 a year; December 14, 1919; form 1312; age, at least 25 but under 45 years.

Agent for agricultural education (male); \$3,000 to \$3,500 a year; agent for trade and industrial education (male); \$3,000 to \$3,500 a year; December 2, 1919.*
Highway engineer (male); \$1,800 to \$2,400 a year; November 11, 1919; age, under 35 years.*
Hospital interne (male); \$100 a month with subsistence, quarters, and laundry; November 23,

1919. The following examinations are closed:

Master gage expert (male); \$2,000 to \$3,600; gage inspector (male); \$1,800 to \$2,400; assistant gage inspector (male); \$1,200 to \$1,800; gage inspector's helper (male and female); \$900 to \$1,320; assistant in marketing, Grade 1 (male); \$1,800 to \$2,400; cement tester (male); \$900 to \$1,200.

^(*) Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date. (†) Nonassembled. Applications will be received at any time until further notice.

Official Circulars.

Acting Member of Board of Local Inspectors.

THE PANAMA CANAL, EXECUTIVE OFFICE.

BALBOA HEIGHTS, C. Z., October 15, 1919. To all concerned—Effective this date, Capt. John Weishofer will act as Member of the Board of Local Inspectors, in addition to his duties as Assistant Captain of the Port, Cristobal.

CHESTER HARDING, Governor.

Reduced Fares for Government Employees and Members of their Families.

PANAMA RAILROAD COMPANY. BALBOA HEIGHTS, C. Z., October 16, 1919. CIRCULAR RA-660:

To all [concerned—1. Effective at once and until further notice, "U. S." tickets, both single trip (designated as "SS") and round trip (designated "S"), will be sold to employees of The Panama Canal and Panama Railroad Company on the gold roll, and their families and to all on the gold roll, and their families and to all others entitled to rates granted employees, as well as to officers and enlisted men of the United States Army and Navy in uniform. "U. S." tickets will also be sold to families and visiting relatives and friends of officers and enlisted men of the United States Army and Navy upon presentiation." It for the secretary and the states of the secretary and the se tation of half-rate requests.

2. At stations where no "U. S." tickets are

provided, half-rate simplex tickets 576-A and 576-D will be sold.

576-D will he sold.

3. Persons entitled to the tickets specified above, boarding trains at nonagency stations or after regular stations are closed, will be charged half the regular tariff rate. Minimum cash fare on trains will be 10 cents United States currency, except between Pedro Miguel and Paraiso, and

on trains will be 10 cents United States currency, except between Pedro Misuel and Paraiso, and Culebra and Empire, where the charge will be 5 cents United States currency.

4. Effective Monday, October 20, 1919, the special rate \$1.50 Sunday and holiday round trip ticket will be sold at regular stations every day, to employees of The Panama Canal and the Panama Railroad Company on the gold roll and to their families, and to all others entitled to rates granted employees, including officers and enlisted men of the United States Army and Navy in uniform. The going portion will be good only on regular trains on date of sale. The return portion may be used not later than the last regular train leaving a terminal on the day following the date of sale, except that when a Sunday and holiday occur together, the return portion of tickets sold on the day immediately preceding the two days, will be honored not later than on the last regular train leaving a terminal on the second of the two days. the two days.

5. No baggage will be checked on the special round trip tickets and no refunds will be made for

unused portions thereof.
6. All persons, civilian and military, boarding trains without transportation at regular stations open for business, will be charged full tariff

open for business, will be charged that tarin rates plus 10 cents.

7. All persons requesting or being furnished with transportation, at reduced rate herein authorized, shall properly identify themselves to ticket sellers, collectors, or trainmen, either by producing commissary identification card, photo-metal check, or other proper authority issued by the Executive Office or by the Superintendent of the Panama Railroad, and shall otherwise be subject to the rules and regulations of the company in effect at the time.

H. A. A. SMITH, Auditor, The Panama Canal. Approved:

W. F. FOSTER,

Actg. Supt., Panama Railroad Co.

Approved:

CHESTER HARDING.

President, Panama Railroad Co.

Foreman's Orders for Nonexpendable Property, on Commissaries.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT,

CIRCULAR No. 216:

BALBOA HEIGHTS, C. Z., October 11, 1919.

The Governor's circular No. 656-13 and Audi-The Governor's circular No. 656-13 and Auditors circular No. 188, were issued for the purpose of allowing nonexpendable property to be issued from commissary stock only when the articles desired are not obtainable in Supply Department storehouse, and are available for issue from the commissary on which the order is drawn.

The foreman's orders should constitute both an order and a receipt for the property and cover cases.

The foreman's orders should constitute both an order and a receipt for the property and cover cases only where immediate delivery is made.

The commissary invoice issued and sent to this office should cover every item on the foreman's order. The foreman's order should not be left open to have an additional issue made to be covered by an additional invoice. Items on foreman's orders not filled immediately, should be crossed off.

The original foreman's order as drawn and the

be crossed off.

The original foreman's order, as drawn, and the foreman's order as filled, should be compared as required by Auditor's circular No. 181.

Н. А. А. Ѕмітн, Auditor, The Panama Canal.

Approved:

CHESTER HARDING, Governor.

Count of Mail Handled by Post Offices.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., October 13, 1919. HEADS OF DEPARTMENTS AND DIVISIONS:

For statistical purposes a count of all mail handled by Canal Zone post offices will be made during the period October 16 to November 15, inclusive. You are therefore directed to issue the necessary instructions so that all outgoing mail during this period will be delivered to or handed

in at post offices as often as possible.

The cooperation of all departments and divisions will relieve considerably the congestion at post offices and will insure the dispatch of all mail

without delay.

By direction of the Governor.

C. A. MCILVAINE, Executive Secretary.

Final Issue of Commissary Books.

THE PANAMA CANAL, EXECUTIVE DEPARTMENT

Balboa Heights, C. Z., October 17, 1919.

To all concerned—As it has been ascertained that practically all employees have a sufficient amount earned as of the 24th of each month to cover their monthly needs for commissary books. the following regulations will govern:

Effective at once the issue of commissary books on the 4-day period ending the 24th day of the month will be the final issue to all employees each month.

month.

Foremen and timekecpers are directed to notify the employees under their jurisdiction that this

the employees under their jurisdiction that this rule will be strictly adhered to.

Employees should provide themselves with sufficient books on this final issue to last until the first issue of the following month.

Timekeepers when taking orders for books for the period ending the 24th must call the attention of all employees to the fact that no further requests for commissary books will be received during that month.

By direction of the Courses.

By direction of the Governor.

A. McIlvaine, Executive Secretary.

Cable Notice.

PANAMA RAILROAD COMPANY. OFFICE OF MASTER OF TRANSPORTATION, BALBOA HEIGHTS, C. Z., October 15, 1919, CIRCULAR No. 1397:

To agents and operators—The following in-formation has been received from the Central and South American Telegraph and Cable Com-

pany:
"Communication with Guam and Philippines via San Francisco and wireless restored subject to delay."

W. J. BISSELL, Acting Master of Transportation.

Appointment.

THE PANAMA CANAL,

DEPT. OF OPERATION AND MAINTENANCE, BALBOA HEIGHTS, C. Z., October 14, 1919. To all concerned-Effective October 16, 1919, Mr. George W. Green is appointed Superintendent of the Southern Municipal District, vice Mr. R. C. Hardman, transferred

D. E. WRIGHT, Municipal Engineer.

Increase in Cost of Meal Tickets.

THE PANAMA CANAL.

ACCOUNTING DEPARTMENT,

BALBOA HEIGHTS, C. Z., October 17, 1919. To all concerned—Effective November 1, 1919, the cost of 30-cent and 40-cent rations at all silver messes will be increased to 40 and 50 cents.

The 40-cent ticket will continue to be used for the 40-cent ration. The present stock of 30-cent tickets have been stamped "FIFTY CENTS" and will be used for the 50-cent ration.

All 30-cent tickets should be turned in to this office immediately after the first of next month. Requisitions for a supply of 50-cent tickets should be placed with this office in ample time

for use on the above effective date.

H. A. A. SMITH, Auditor, The Panama Canal.

Passenger Accommodations on the "Gen. Geo. W. Goethals."

PANAMA RAILROAD COMPANY,

OFFICE OF SUPERINTENDENT,

BALBOA HEIGHTS, C. Z., October 18, 1919. To all concerned—Owing to delay in sailing of our passenger steamers from New York on account of the strike, I wish to advise that those who desire to secure transportation during the latter part of this month, or before arrival of the steamers which are being detained at New York, can obtain passage on the steamship Gen. Geo. W. Goethals, which will probably sail from Cristobal between October 25 and 29. This ship has 18 rooms, with two berths and sofa in each room, capable of accommodating three adults, two rooms with four berths each, and three rooms with two berths each. All staterooms are in excellent condition, and we can book a total of 68 first-class passengers on this steamer. desire to secure transportation during the latter

W. F. FOSTER, Acting Superintendent.

Joint Commission.

Rules of Dismissal.

In the matter of the claim of Bertina Diaz, for properly known as "La Granja," rule of dismissal No. 428, docket No. 2723, October 15, 1919—With reference to the claim of Bertina Diaz, docket No. 2723, the evidence before the Commission is that settlement therefor was made by the United States on September 9, 1919.

In view of such settlement, the above claim calls for no further action by this Commission

and said claim is therefore hereby dismissed.

FEDERICO BOYD, BURT NEW, RICARDO J. ALFARO, GEORGE A. CONNOLLY, Commissioners.

In the matter of the claim of Alberto and Francisca Guilray, in which rules of default have been entered, rule of dismissal No. 430, docket No. 3286, October 16, 1919—On April 13, 1916, the Joint Commission, with the approval of the two governments, parties to the treaty, adopted a rule relative to the continuance or dismissal of claims in which the claimants are not ready for trial on the date their claims are set for hearing or who fail to date their claims are set for hearing or who fail to appear for hearing. This rule provides for the appear for hearing. This rule provides for the entering of a rule of default against claimants who fail to appear when called.

The said rule also provides that: "Upon the entry of such rule of default (at the end of each month) notice thereof shall be given end of each month) notice thereof shall be given by four successive publications, one each week, in the English and Spanish languages, in newspapers of general circulation in the Republic of Panama. notifying such claimants to appear in person or by attorney within sixty (60) days from the first of said publications and show good and sufficient cause why such default should be set aside, and take active steps to prosecute their claims, and failing to so appear within 60 days from said first publication their claims will be considered as having been either settled or be considered as having been either settled or abandoned and the same will be dismissed and forever barred."

In the claim of Alberto and Francisca Guilray, docket No. 3286, set for hearing July 30, 1919, there was no appearance on the part of claimants nor counsel for claimants, and a rule of default

was accordingly entered against them.

Due notice having been given as provided for in the above-quoted section of the rule of the Commission, and there having been no appearance by the claimants in person or by counsel during the 60-day period fixed in the rule referred to, which began on August 7, 1919, the foregoing claim against the United States is hereby dis-missed and forever barred.

FEDERICO BOYD, GEORGE A. CONNOLLY, JULIO J. FABREGA, BURT NEW, Commissioners.

Award.

Award.

In the matter of the claim of Frank Malcolm Briggs, for properly located in the District of Chagres, award No. 208, docket No. 3598, October 17, 1919—An award is hereby made against the United States of America in favor of Frank Malcolm Briggs in the sum of \$1,000 United States currency, for all right, title, and interest the said Frank Malcolm Briggs may possess or may have possessed in and to the property located on the west bank of the Chautes River, between the Canal Zone boundary and the mouth of said river, within the Republic of Panama, subject of claim docket No. 3598, including all improvements located thereon and any and all damages sustained on account of the expropriation of the said prop-

on account of the expropriation of the said property by the United States of America.

This award shall be paid on or before the 17th day of November, 1919, and if payment or tender of payment is not made on or before that date, said award shall thereafter bear interest at the rate of six per centum per annum until paid.

FEDERICO BOYD, BURT NEW, JULIO J. FABREGA, GEORGE A. CONNOLLY, Commissioners.

Additions to Commissary Stock.

Polish, shoe, black, Bostonian cream, bot	\$0.16
Trees, slipper, steel, pr	.07
Cigarettes, Piedmont, 20s pkg	.12
Spare parts for Icy Hot Vacuum Bottles:	
Corks for quart bottles, ea	.05
Corks for pint bottles, ea	.05
	.01
Pads for quart and pint bottles, ea	
Rings, rubber, for quart bottles, ea.,	.08
Rings, rubber, for pint bottles, ea	.04
Bowls, sugar, enameled, pt., ea	.57
Knives, table, celluloid handles, ea	.79
Knives, pocket, ea	1.00
Knives, pocket, ea	45
	1.50
Knives, pocket, ea	
Pitchers, cream, enameled, 4-pt., ea	.47
Pots, tea, individual, enameled, pt., ea	.76
Shakers, salt or pepper, ea	.15

THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address The Panama Canal Record, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C. Entered as second-class matter, February 6, 1918, at the Post Office at Cristobal, C. Z. under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., October 29, 1919.

No. 11.

Notice to Steamship Lines.—Crew Lists for Incoming Vessels.

THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., October 22, 1919.

1. Circular No. 679-4, dated December 8, 1917, requires that "all vessels entering Canal Zone ports, or transiting the Canal, will be required to furnish a correct copy of their crew lists to the Quarantine Officer, in addition to the copy which is now furrished the boarding inspector of the Customs Service by vessels stopping at Canal Zone ports."

2. In order that these lists may be prepared with minimum effort in the required

form, The Panama Canal has prepared a form (No. 1509), "Crew List for Incoming Vessels," which may be used when other suitable lists giving the required information are not available. This form is being distributed to steamship operators, and additional copies may be secured as needed by request made to The Panama Canal, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C.

3. Attention is invited to the fact that this form is designed to give requisite information to the customs and quarantine authorities at the Canal Zone only for in-

coming ships of all nation the Canal Zone for crew l from the Canal Zone, und	lists of Americ	an ships with crew sion of the Deputy	s signing on and	ship ping				
The heading of Fo to in the Notice to	orm 1509, cr Steamship I THE PAN CREW LIST FOR	Lines published IAMA CANAL INCOMING VESSELS	ming vessels, above, is as	follows				
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The use of Form 1509 is not compulsory if the required information is given on other suitable lists. The form is furnished "in order that the lists may be prepared with minimum effort in the required form."

MOVEMENTS OF OCEAN VESSELS. Week ending at Midnight October 25, 1919.

THROUGH THE CANAL-ATLANTIC TO PACIFIC,

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Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian. (d) Fresh salted hides, sugar. (e) Lubricating oil and general.

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PORT OF BALBOA.

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*ARRIVALS	F. Shuber. Toyo Kisen Kaisha.
	Almirante (f)
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(f) Schooner. (g) Supply ship.

*Other than ships passing through the Canal.

Tariff Supplement.

The Panama Canal has issued supplement No. 1 to Tariff No. 3, as follows:

> THE PANAMA CANAL, PANAMA RAILROAD COMPANY, BALBOA HEIGHTS, C. Z., October 15, 1919.

The following amendments are made to Tariff No. 3-Schedule of Rates for Supplies and Services Furnished to Shipping and Allied Interests at the Panama Canal:

ITEM 3—PILOTAGE.

(Add to paragraph 5).

Effective October 1, 1919. No charge for pilotage will be made against a vessel solely on account of its acceptance or delivery of mails originating in or destined for the Canal Zone or the Republic of Panama.

ITEM 4-HANDLING LINES.

4. Effective October 1, 1919. If for reasons other than the fault of The Panama Canal, a vessel fails to start through the Canal on the day the men for handling lines are placed on board such vessel, a charge of \$1 per man will be made in addition to the regular charge of \$3.50 per man for the transit of the Canal.

ITEM 22-FUEL AND DIESEL OILS.

1. Effective October 15, 1919. Fuel oil per barrel of 42 gallons, delivered to vessels at either Cristobal or Balboa, \$1.50.

3. Effective September 3, 1919. Pumping oil into and out of private tanks, 4 cents per barrel. Oil having a viscosity in excess of 225 Engler degrees at 86° Fahrenheit will not be handled by Panama Canal oil plants and permission for storage thereof will not be granted.

The General Storekeeper at Balboa should be advised as to the approximate dates that steamers are due to arrive with oil either at Cristobal or Balboa, so that neces-

sary arrangements may be made for handling.

ITEM 37—CUSTOMS FEES.

2. In order to facilitate the discharge of passengers from vessels after the usual working hours at the terminal ports of the Canal, the following additional customs regulations are hereby established, effective September 1, 1919:

(a) The Bureau of Customs shall furnish customs inspectors for inspection of passengers' baggage between the hours of 6 p. m. and 7 a. m. and on Sundays and holidays, only upon the request of the master or authorized agent of any vessel calling at the ports of Balboa and Cristobal.

(b) A charge will be made for such services against the vessel for which the service is rendered on the basis of \$5 for each customs inspector engaged between the hours of 6 p. m. and 11 p. m., or fraction thereof, on any work day, and \$10 for each inspector engaged after 11 p. m.; and for service on Sundays and holidays a charge of \$10 will be made for each inspector engaged between the hours of 7 a. m. and 6 p. m. and 6 p. m. and 11 p. m.

(c) The number of customs inspectors who may be required to inspect passengers'

baggage of any vessel will be determined by the Chief Customs Inspectors, or designated subordinate officers, based on their information and knowledge of the require-

ments.

CHESTER HARDING, Governor, The Panama Canal. President, Panama Railroad Company.

Beginning of Pacific Mail Company Coastwise Service Through the Canal.

The steamship Point Bonita, passing through the Canal on October 26, on the way from Baltimore to San Francisco, is making the first voyage in a new coastwise service established by the Pacific Mail Steamship Company, which thus resumes Atlantic traffic after an absence of nearly a quarter of a century. In the new service a ship will sail in each direction every three weeks. From Baltimore the route will be via Habana and Puerto Colombia to Cristobal, thence through the Canal and along the Pacific Coast to San Francisco, with calls at the principal Central American ports; on the eastbound voyage the route will be the reverse. Four new oil-burning steamships will be employed in the service. They are the *Point Judith*, *Point Bonita*, *Point Adams*, and *Point Lobos*. No passengers will be carried, but passengers will continue to be carried on the regular service between Cristobal and San Francisco, which began on April 16, 1916, when the southern terminus was made Cristobal instead of Balboa, and was an extension through the Canal of a service which had been operating on

the Pacific for nearly half a century.

The Atlantic line of the Pacific Mail, operating in the early 90's and connecting with the Pacific line by means of the Panama Railroad, was discontinued under an agreement with the Panama Railroad Company, then a privately owned corporation, dated December 16, 1895. The Panama Railroad Company ceased the operation of the direct line of steamers which it had operated between Panama and San Francisco, and the Pacific Mail discontinued the operation of its line between New York and Colon, which had run in competition with the Panama Railroad Company's line on the Atlantic.

Forty Wooden Ships for France.

The Canal is being used for the passage of 40 wooden vessels built in British Columbia for the French Government. Thirteen have passed through the Canal to date. They have been chartered by the British Government, and on their maiden voyages are carrying lumber to Great Britain, though it is expected that they will ultimately be used in the coasting trade of France. Twenty of the ships are twin screw steamers of 3,000 tons, and the other half are of approximately 1,500 tons, and are of the type which the French call *barge*.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending October 25, 1919.

•				Care	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Mantaro. Jamaica Peru. Cartago Middlebury Tivives Teviot Nobles Abangarez Abangarez Huasco Mendocino Cauca Guatemala Orca Urubamba Antillian	Feruvian Steamship Line. Pacific Steam Navigation Co. Pacific Steam Navigation Co. Pacific Steam Navigation Co. United Fruit Company United Fruit Company United Fruit Company United States Shipping Board. United States Shipping Board. United Fruit Company Panama Railroad Steamship Line. United Fruit Company Unastica Petroleum Co. Pacific Steam Navigation Co. Pacific Steam Navigation Co. Peruvian Steamship Line. Levland Steamship Line. Levland Steamship Line.	October 19. October 19. October 29. October 20. October 20. October 23. October 23. October 23. October 24. October 24. October 25. October 25.	October 24	765 2,295 (*) 400 5 6,416 12,013 1,568 9,900 1,222	Tons. 1,026 201 (†) 120 41 52 2,371 27 (†)

^{*} No cargo discharged.

†No cargo laded.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending October 25, 1919.

				Cargo—		
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.	
Jamaica	Pacific Steam Navigation Co	October 23	October 23		Tons. 1 13	

Prices of Ccal.

The following prices of coal in various ports of the world are quoted on the basis of information published in *Nauticus*, issue of September 27, 1919. The prices were supplied to *Nauticus* by Messrs. Willard, Sutherland & Co., bunkering contractors, as of September 15. For quotations in other than United States currency the equivalent values in United States currency have been added for normal exchange and for present rates of exchange. The value of current exchange is taken from a statement issued by the Guaranty Trust Company of New York under date of September 20, 1919, with the exception of the rupee, on which exchange is as quoted by the American Foreign Banking Corporation on October 4. Separate quotations were made by the banks on exchange of gold, silver, and bánk notes; the figures for bank notes were taken for this tabulation, as it is believed transactions would not normally be made in gold or silver coin. Where more than one price is quoted for a port the exchange has been calculated on the lowest rate.

Prices at Balboa and Cristobal for ships passing through the Canal are \$11.50 per ton; for ships calling at the terminal ports without passing through the Canal, \$11.50 at Cristobal and \$13.50 at Balboa.

Prices at the other ports quoted are as follows:

FOREIGN PORTS.

Prices at ports outside of the United States and Canada are given below:

·	Foreign ports quotation.	Value in U.S. cur- rency, nor- mal ex- change.	Value in U. S. cur- rency, pres- ent ex- change.
Gibraltar Algiers Marseilles Oran Port Said Neweastle Southampton Liverpool Plymouth Hull Fowey London-Gravesend Dartmouth-Portland Cardiff Swansca North of Scotland Copenhagen Troudhjem Gothenborg, Amsterdam Antwerp Havre Bordeaux Bilbao Azores Madeira Teneriffe Las Palmas St. Vincent Barbados St. Lucia Trinidad St. Thomas, V. I Bermuda Curraçao, D. W. I	125s 137s 6d 115s 115s 115s 115s 115s 115s 125s 75s to 80s 90s 6d 50s to 60s 90s 51s to 55s 85s 6d 100s 105s 6d 75s to 80s No coal	\$30. 37½ 33. 41½ 27. 94½ 30. 37½ 18. 22½ 21. 99 12. 15 21. 87 12. 39 20. 77½ 24. 30 25. 63½ 14. 58 38. 86 34. 22½ 44. 58 38. 86 34. 22 24. 90 28. 14 25. 51½ 25. 15 28. 55 28. 55 28. 55 24. 90 24. 66 24. 63 22. 00	\$26.25 27.50 23.00 23.00 26.25 15.00 18.10 10.00 118.00 119.00 11
Rio de Janeiro Pernambuco Bahia Santos Rosario Bahia Blanca Buenos Aires La Plata Montevideo	152s 6d '155s 155s 155s 147s 6d 149s 145s 145s	$\begin{array}{c} 37.05\frac{1}{2} \\ 37.66\frac{1}{2} \\ 37.66\frac{1}{2} \\ 37.66\frac{1}{2} \\ 37.66\frac{1}{2} \\ 35.84 \\ 36.20\frac{1}{2} \\ 35.23\frac{1}{2} \\ 35.23\frac{1}{2} \\ 35.23\frac{1}{2} \end{array}$	31.00 31.00 31.00 29.50 29.80 29.00 29.00

·	Foreign ports quotations.	Value in U. S. eur- rency, nor- mal ex- change.	
Coronel. Delazao Bay. Port Natal Cape Town. Dakar Singapore. Colombo. Aden. Bombay Karachi Port Kembla. Adelaide Albany.	338 6d 358 6d to 378 438 10d to 488 4d 1178 818 to 918 758 to 818 6d 1028 6d to 1058 26-8-0 Rupees 24 Rupees 188 348 9d 408 9d	\$15,79½ 8 04 8 62½ 10 65 23 43 19 68 18 22½ 24,90 8 .42 7.77½ 4 .37 9 .44 9 .90	\$13.00 6.70 7.10 8.764 23.983 16.20 15.09 20.58 11.16 10.32 3.69 7.12 8.33
Fremantle Melbourne Sydney Sydney Harbor	29s 9d	$ \begin{array}{c c} 9.90 \\ 7.22\frac{1}{2} \\ 6.56 \\ 4.86 \end{array} $	8.33 6.094 5.531 4.19

AMERICAN PORTS.

New York, N. Y.; \$6.35 pool 9 and 71, f. a. s. ex lighters.
Philadelphia, Pa.; \$6.50 pool 9 and 71, trimmed, ex lighters.
Baltimore, Md.: \$6.50 pool 9 and 71, trimmed, ex lighters.
Newport News, Sewall's Point, Lambert's Point, Va.; \$6.50 f. o. b. under chutes at

coal piers, trimming extra.

Boston, Mass.; \$10.25 t.i. b., ex lighters. Charleston, S. C.; \$6.25 f. o. b. and trimmed, under chutes at coal piers. Portland, Me.; \$11.50 trimmed ex lighters.

Wilmington, Del.; \$7.90 f. o. b. ex lighters.

Savannah, Ga.; \$6.80 t. i. b. alongside supplier's wharf. Jacksonville, Fla.; \$9.95 New River-Pocahontas; \$8.75 Stonega, t. i. b. alongside

supplier's wharf.

Mobile, Ala., \$7.50 Sipsey; \$6.50 Pratt R/M; f. o. b. alongside supplier's wharf.

Mobile, Ala., \$7.50 Sipsey; \$6.50 Pratt R/M; f. o. b. alongside supplier's wharf. Pensacola, Fla.; \$6.26 Cahaba or Black Creek washed; \$5.25 Pratt R/M; \$5.85 Cahaba or Black Creek R/M; f, o. b. under chutes at coal piers.

New Orlears, La.; \$7.40 Sipsey; \$6.50 Pratt R/M; t. i. b. ex lighters.

Galveston, Tex.; \$10.50 Oklahoma Steam Coal; f. o. b. at supplier's wharf.

Seattle, Wash.; \$9.15 Comox Steam Coal, f. a. s. ex lighters.

San Francisco, Cal.; \$13.05 Utah and/or British Columbia, f. o. b. ex lighters,

trimming extra.

San Pedro, Cal.; \$8.50 Utah Black; \$9.65 R/M; f. o. b. alongside supplier's whari.

CANADIAN PORTS.

Union Bay, Vancouver; \$7.65 Comox Steam Coal; f. o. b. under chutes at coal piers, trimming extra.

St. John, N. B.; \$10.50 t. i. b. ex lighters. North Sydney, N. S.; \$7.25 t. i. b. at piers. Halifax, N. S.; \$10.50 t. i. b. ex lighters.

· Thunderstorms on the Isthmus.

Thunderstorms, like cyclones and earthquakes, being violent manifestations of the powers of nature, make dramatic impressions on human consciousness and are consequently often described with a tendency to exaggeration of their phenomena. Much has been said of the terrific thunderstorms of the Isthmus, but the following paper on "Panama Thunderstorms," prepared in the office of the Chief Hydrographer of The Panama Canal, is believed to be the first adequate report to be made on Panama thunderstorms based on authentic records:

Thunderstorms are of frequent occurrence in most tropical and equatorial regions of heavy rainfall. In Panama the curves of thunderstorm frequency follow fairly close the curves of average monthly rainfall, but August is generally the month of maximum thunderstorm frequency, while May and November are the months of heaviest rainfall. There is a marked decrease in thunderstorms in November and December due to a decrease in the number of afternoon convective showers, yet November is usually the rainiest month of the year.

The following table shows the yearly average number of thunderstorm days at stations in the Canal Zone, compared with selected stations in the United States:

Station.	Location.	Approximate elevation.	Years of record.	Thunderstorm days each year.
Culebra Balboa Heights Fampa, Florida. Santa Fe, New Mexico. Chicago, Illinois New York City.	Atlantic Coast Continental Divide. Pacific Coast. Gulf Coast Rocky Mountains Great Lakes. Atlantic Coast. Pacific Coast.	100 67 7,013 595	11 7 13 10 10 10 10	106 137 119 94 73 40 28

Thunderstorms in Panama are most numerous in the interior near the Continental Divide and fewest along the Atlantic Coast.

HOURLY DISTRIBUTION OF THUNDERSTORMS.

Sufficient data are not available to show accurately the curves of hourly distribution of thunderstorms in Papama, but in a general way from 75 per cent to 80 per cent of all thunderstorms occurduring the daytime on the Pacific Coast and over the interior, while along the Atlantic Coast nearly half of the thunderstorms occur during the night or early morning. The reason for this difference in thunderstorm distribution is to be found in the character of prevailing rainstorms. On the Pacific Coast and over the interior most of the rains are afternoon local showers of convective origin, usually accompanied by thunder and lightning, while along the Atlantic Coast much of the rainfall comes in the form of general storms of wider extent, and many of these occur during the night or early morning.

Attendant phenomona normally include precipitation, wind squalls, and occasion-

*Precipitation.—Practically all Panama thunderstorms are accompanied by rainfall, many of the tains being at an excessive rate. The average number of excessive rains per year is about 60 on the Atlantic Coast and about 30 on the Pacific Coast. Most of these excessive rains accompany thunder-(Excessive rains are classified in accordance with the U. S. Weather Bureau Scale of Excessive Precipitation.)

Precipitation.)

Wind squalls.—Thunderstorms in the Canal Zone frequently are accompanied by wind squalls. These seem to have a gyratory motion at times, but the maximum wind usually is a straight blow. The wind may blow from any direction. Maximum wind velocities range from 25 up to 45 or 50 miles an hour. These wind squalls seldom are of sufficient violence to do much damage on land, and they never are of long enough duration to kick up a heavy sea at either Canal entrance.

Thunderstorms and wind squalls usually travel across the 1sthmus from the Atlantic Coast toward the Pacific, approximately in the direction of the gene ral air circulation, which is from north to south or from northeast to southwest. Occasional thunderstorms have been observed to travel in the piposite direction from the south or southeast toward the north or northwest. Two of the most riolent wind storms of record in Panama moved across the 1sthmus from the southeast. One occurred on July 10, 1909, with a maximum wind velocity of 59 miles an hour at Ancon and the other occurred during the night of June 16-17, 1919, the maximum velocity recorded being 50 miles an hour at Gatun, C. Z.

Hail.—Hail has been observed in the Canal Zone or vicinity on three occasions during the past 12 years, accompanying thunder or rain storms. Hail fell at Cucaracha (near Culebra) in 1908, the exact

rears, accompanying thunder or rain storms. Hall fell at Cucaracha (near Culebra) in 1908, the exact date being unknown, and again at Alhajuela on the afternoon of May 28, 1910. A third hail storm occurred on Naos Island on June 15, 1912, during a heavy rain storm. The hail stones that fell during these storms were small and melted quickly, and in no case was the fall excessive. This phenomenon is unusual in a low-lying tropical ccuntry, but severe hailstorms are experienced frequently at high altitudes in mountainous regions within the tropics.

SEVERE THUNDERSTORMS.

Although thunderstorms are very numerous in Panama, averaging from 100 to 140 per year, very few of these storms are particularly severe. Perhaps not more than two or three extremely severe thunderstorms will occur during the course of a year. Contrary to the popular belief that thunderstorms in equatorial regions are something terrific, it is the writer's observation that thunderstorms in the central and upper Mississippi valley sections of the United States, while not nearly so numerous as thunderstorms in Panama, are frequently more severe and destructive.

LIGHTNING DAMAGE.

Lightning accompanying thunderstorms has caused little damage or loss of life in the Canal Zone and vicinity during recent years. The following table shows the number of deaths by lightning since 1906, taken from the Health Department vital statistics, and from newspaper reports:

	Deat	hs		Deaths
Year.	from			froin
	lightn			lightning.
1906		0 1914		1
1907		0 1915		0
1908		*2 1916		0
1909		1 1917		0
1910		0 1918		1
1911		3		
1912		0 Total	(13 years)	8
1913		0		

Deaths from dynamite; explosion set off by lightning.

The average population of the Canal Zone (including Panama City and Colon) during this period was about 120,000.

There are few records of serious property damage from lightning in the Canal Zone.

An oil tank at Mount Hope belonging to the Union Oil Company was struck by lightning on May 20, 1908, and 11,000 barrels of oil were burned.

The radio towers at Colon were struck by lightning three times on the night of October 14, 1914, and badly damaged.

The instrument tower at Balboa Heights was struck on October 19, 1914.

The instrument tower at Balboa Heights was struck on October 19, 1914.

The radio towers are struck by lightning frequently during electrical storms, but when properly grounded they ordinarily suffer little or no damage.

Canal lighthouses and range lights have been struck by lightning a number of times. Lighthouse tower No. 5 at the Pacific entrance was struck twice in June, 1918, and badly damaged; and a tall lighthouse tower at Gatun was struck and damaged in August, 1918.

An observation balloon at the Coco Solo Naval air station was burned by lightning during an electric storm on August 5, 1919. The mess hall located close by was struck at practically the same time and slightly damaged. It was stated in the report of the Naval Committee that investigated the damage, "That the electric current seemed to pass from the bottom of the building upward and out through the roof." A similar phenomenon was reported a few months earlier on Bona Island in the Gulf of Panama where the reinforced concrete lighthouse tower was struck by lightning, the charge seeming to pass from the base of the tower upward and out into space.

The relatively slight damage from lightning suffered in the Canal Zone and vicinity.

The relatively slight damage from lightning suffered in the Canal Zone and vicinity

may be partly explained as follows:

(1) A large percentage of the lightning bolts probably never reach the earth but

merely pass from one cloud to another.

(2) In the Canal Zone and vicinity there are a large number of hills with round, conical tops, ranging in elevation from a few hundred feet up to 1,000 feet or more. These hilltops probably serve as lightning rods or conductors, and, being for the most

part uninhabited, lightning bolts that strike them do no damage.

(3) It is probable, also, that the humid atmospheric conditions and frequent rainstorms that prevail on the Isthmus and the moist condition of the soil facilitate the ready interchange of electrical currents between the atmosphere and the earth, thus tending to prevent the accumulation of powerful electric stresses that would finally find relief in severe thunderstorms. This is thought to be one of the principal causes of the relatively slight damage suffered in the Canal Zone from electric storms.

COMPARISONS.

It is interesting to compare thunderstorm conditions in Panama with conditions in the United States. There are two areas of maximum thunderstorm frequency in the United States. The principal one extends over the Gulf States with center near Tampa, Florida, where the average annual number of thunderstorms is about 94. Another thunderstorm region centers over New Mexico, where the average annual number of thunderstorms is about 73. The Pacific Coast of the United States is the most free from electric storms. The average number of thunderstorms at San Francisco is less than one per year.

Thunderstorms over the central and upper Mississippi Valley States average about 40 per year. A large percentage of these accompany general cyclonic storms and they may occur either during the daytime or at night. The greatest damage from lightning occurs in the region from the central Mississippi valley eastward to the Atlantic

Coast.

It is variously estimated that from 500 to 1,000 buildings are struck by lightning and burned in the United States each year, and that several hundred people are killed by the lightning annually, and many more injured.

It would seem that although thunderstorms are more numerous in Panama than anywhere in the United States, the total loss of life and property damage from electric storms is relatively less in Panama than in many sections of the United States.

The data on thunderstorms in the United States presented herein were abstracted from papers on Thunderstorms, by Wm. A. Alexander, of the U. S. Weather Bureau, and Robert DeC. Ward, published in the Proceedings of the Second Pan-American Scientific Congress, Vol. II.

Commercial Telephones.

Owing to the fact that there are no surplus telephone instruments on the Isthmus, it will be impossible for the Electrical Division to fill the numerous requests on file for private telephone installations, until the arrival of new instruments from the States.

It is impossible to state when the telephone instruments now on order will arrive, on account of the uncertainty of labor and shipping conditions. When they arrive, notice will be published.

W. L. HERSH, Electrical Engineer.

New Spur Track at La Pita.

A spur track heading north has been built on the east side of the main line of the Panama Railroad at La Pita to be used for dumping manure for the Supply Department gardens. The total length of the track is 323 feet and the available length from derail to end, 151 feet.

November Weather Probabilities.

The following weather conditions may be enjected at the Canal entrances during the month of November, 1919. Predictions are based on November records of 12 and 13 years at Colon and Balboa Heights, respectively:

Winds-Light and variable winds with an average hourly velocity of from 6 to 12 miles an hour will prevail throughout the month at the Atlantic entrance, the higher average wind velocities occurring during the middle of the day. Southeast and west winds will predominate. Maximum velocities of from 30 to 40 miles an hour are possible during local rain or thunder squalls.

At the Pacific entrance and over the interior light northwest winds will prevail, with a considerable percentage of variable wind during the daytime. The average hourly velocity will range from 5 miles during the early morning to 8 miles during the middle of the day, although maximum velocities of from 25 to 30 miles an hour are likely to occur during rain or thunder squalls.

Rain-The average November rainfall at Colon is 21.34 inches, and at the Pacific entrance 10.87 inches; these averages are based on 48 years' record at Colon and 22 years' record at Balboa Heights. About 26 days with rain may be expected at the Atlantic entrance, and 23 days at the Pacific, while the average number of days with heavy rain (1 inch or more) is about 8 at the Atlantic entrance, and 3 on the Pacific side. The greater part of the rainfall (about 70 per cent) occurs during the daytime at the Pacific entrance and over the interior, while along the Atlantic Coast nearly half of the November rainfall occurs during the nighttime.

Fogs—A few fogs may be expected on the Pacific Coast, but nore are likely to occur on the Atlantic side. The average number of nights with light or dense fog over the Gaillard Cut section of the Canal is 14. These fogs should not prove a

hindrance to navigation in the daytime, as practically all fogs that occur may be expected to lift or be dissipated before 8.30 a. m.

Temperatures—The average shade air temperature will be approximately 79° Fahrenheit over both coasts. Temperatures are more equable on the Atlantic Coast than on the Pacific. The temperature is not likely to rise above 90° F. or fall lower than 70° F. on the Atlantic Coast, while at the Pacific entrance the maximum temperature may be as high as 94° F. and the minimum as low as 67° F. The mean daily range of temperature is approximately 8° F. on the Atlantic Coast, and 14° F. on the Pacific.

Barometric pressure—The average sea level atmospheric pressure will be about 29.85 inches. Local barometric readings are of little value in forecasting weather conditions, as fluctuations in air pressure on the Isthmus are very slight, except for the well-marked diurnal changes. The maximum pressure during the month may not be expected to exceed 29.98 inches, or the minimum pressure to be less

than 29.68 inches.

Relative humidity—The relative humidity of the atmosphere will average about 88 per cent over both coasts. The range is greater on the Pacific Coast, where the nighttime average humidity is about 95 per cent and the average daily humidity is about 75 per cent, while on the Atlantic Coast the average nighttime humidity

is about 92 per cent, and the average daily minimum humidity is about 75 per cent. Storms—The so-called "northers" may extend as far south as the Atlantic entrance of the Canal during the month of November. These storms are characterized by orisk north to northwest winds, ranging in velocity up to 30 or more miles an hour, and are usually accompanied by a heavy swell. Local wind, thunder, and the month. Cenerally cloudy weather will continue over both coasts, and smooth to moderate seas may be expected at the Pacific entrance. Storms of the hurricane type may occur during the month over the Caribbean Sea and West Irdian Islands.

Tides—Tidal fluctuations need not be considered in navigating the Atlantic entrance to the Canal, as the extreme tidal range is but about two feet. The tidal range at the Pacific entrance averages about 13 feet, while the maximum range may reach 20 feet during spring tides.

Panama (Balboa) tide predictions for the month are given below:

Da	y of-			Da	v of-					Da	y of-	-			
W.		Time and He		W.				eight of v Wate		-				eight o v Wate	
W.	Mo.	und bon		W.	Mo.			17 47 47 6		W.	Mo.			· 11 a.c	
S	1	3:05 8:40 4.6 12.5	3:31 9:24 4.3 12.8		11		12:07 -1.1			F	21	2:38 14.4	9:06 2.2	3:07 14.0	9 .21 3 .0
s	2	4:08 9:43 4.8 12 2	4:34 10:29 4.5 12.9	W	12	0:32 0.3	6:39 16.9	12:57 -0.3	7:13 16.5	S	22	3:16 14.6	9:46 1.7	3:46 14.3	10.00 2.7
M	3	5:13 10:59 4.5 12.3	5:39 11:30 4.2 13.4	Th	13	1:24 1 1	7:31 16.0	1:43	8:05 15.8	S	23	3:53 14.8	10:23 1.4	4:25 14.5	10:37 2.5
Tu	4	6:18 12:11 3.8 13.0	6:42 3.6	F	14	2:21 2.1	8:25 15.0	2:45	9:01 15.0	М	24	4:31 14.8	10:58 1.3	5:03 14.6	11 .13 2 .5
W	5	0:38 7:18 14.4 2.7	1:12 7:49 14.9 2.7	S	15	3:24 2.9	9:25 14.0		10:02 14.2	Tu	25	5:07 14.8	11:34 1.4	5:41 14.5	11 .49 2 .6
Th	6	1:32 8:12 15.4 1.5	2:05 8:34 15.1 1.6	s	16		10:32 13.2		11:07 3.8	W	26	5 :43 14 . 6	12:10	6:17 14.4	
F	7	2:24 9:02 16.4 0.2	2:53 9:24 16:0 0.£	М	17		11:42 12.9	5:54 3.9		Th	27	0:26 2 9	6:20 14.2	12:47	6:52 14.3
S	8	3:14 9:50 17.2 -0.7	3:47 10:10 16.8 -0.1	Tu	18	0:12 13.7	6:38 3.6	12:46 13.0	6:53 3.9	F	28	1:06 3.2	6:57 13.9	1:25	7:29 14.1
S	9	4:04 10:35 17.7 -1.3	4:38 10:57 17.2 0.4	W	19	1:08 13.9	7:35 3.2	1:40	1:50 3.7	S	29	1:49 3.5	7:34 13.6	2:08	8:03 13.9
M	10	4:55 11:21 17.9 -1.5	5:30 11:43 17.3 -0.3	Th	20	1:55 14 2	8:23 2.7	2:28	8:38 3.4	S	30	2:38	8:19 13.2	2:58	8:55 13.8

The tides are placed in the order of their occurrence; the times of high and low tides are shown on the upper lines. The figures in boldfaced type are hours and elevations between noon and midnight; ante meridian figures are given in the ordinary lightfaced type. The time is Cosmopolitan Standard for the meridian 75° W.

The expansions of the water are shown on the second line for each day; a comparison of consecutive heights will indicate whether it is high or low water. Heights are reckoned from mean low water springs, which is 8.3 below mean sea level and is the datum of soundings on the Coast and Goodetic Survey charts for this region. The depth of water may accordingly be estimated by adding the tabular height of the tide to the soundings, unless a minus (-) sign is before the height, in which case it is to be subtracted. The annual inequality or variation in the mean sea level is included in the is to be subtracted. The annual inequality or variation in the mean sea level is included in the predictions.

Comparative Wind Records, Cape Mala, Sosa Hill, and Balboa Heights, August and September, 1919.

The following figures show comparative wind records at Cape Mala, at the entrance to the Gulf of Panama, and at Sosa Hill and Balboa Heights, Canal Zone, in August and September, 1919:

	Cape	Mala.	Sosa	Hill.	Ball Heig	
	Aug.	Sept.	Aug.	Sept.	Aug.	Sept.
Average hourly velocity. miles Percentage of wind movement over that at Balboa Heights Prevailing direction Maximum velocity recorded. miles Day of month Direction from which blowing	45. NW 38	9.2 61. SW 39 26 NE	11.0 67. NW 48 5 E	8.4 48. NW 29 8	6.6 NW 32 5 SW	5.7 NW 22 13 S

Note—Approximate elevations of anemometers are as follows: Cape Mala, 110 feet above ground, 150 feet above mean sealevel; Sosa Hill, 35 teet above ground, 405 feet above mean sealevel; Balboa Heights, 97 feet above ground, 231 feet above mean sealevel.

Local Civil Service Examinations.

The following examinations for The Panama Canal Service will be held at Balboa Heights, C. Z., on the dates set opposite the titles thereof:

Clerk, December 21, 1919.

Clerk, December 21, 1919.
Postal clerk, December 14, 1919.
Stenographer and typist, December 14, 1919.
The usual entrance salaries are: Clerk, \$106 a month; postal clerk, \$100 to \$125 a month; stenographer and typist, \$137 for males and \$116 for females.
Full information in regard to the scope and the character of the examinations is contained in pamphlet, form 1424, "Information for Applicants for Stenographer and Typewriter Examination", a copy of which may be obtained from the Secretary, Board of Civil Service Examiners, Administration Building, Balboa Heights, C. Z. Applicants for the clerk examination must take at least one optional subject in addition to the regular basis subjects. The optional subjects are: First,

typewriting; second, bookkeeping; third, general business training and experience; fourth, time-keeping training and experience. If the third optional is taken, three letters of recommendation from former employers should accompany the application.

Applicants for the examination for postal clerk must show that they have had at least one year's experience as clerk in the United States or Canal Zone post offices or as postmaster or as Navy mail clerk, and they are familiar with the receipt, distribution, and dispatch of mail matter, the issuance of money orders, registration of mail and the preparation of various reports required of postmasters.

Application form No. 1312 must be filled out, including the medical critificate but excluding the county officer's certificate, and should be filed promptly with the Board of Civil Examiners at Balboa Heighs. C. Z.

Applicants must have reached their twentieth but not their forty-fifth birthday on the date of the examination, must be citizens of the United States, physically sound and in good health.

Applicants must submit to the examiner on the day of the examination their photographs taken within two years, securely pasted in the place provided on the admission cards sent them after their applications are filed.

applications are filed.

Applicants for the clerk examination in answer to question No. 1 and on the outside of the form should state the optional subject taken in addition to the name of the examination required.

In answer to question No. 4, applicant must show residence in some State or territory of the United States from the time of taking up residence therein to December, 1919, on account of temporary employment on the Canal Zone and their retention of legal residence in the United States. The same must be shown as to the county.

This examination is scheduled on the dates shown especially to provide for the examination of soldiers, sailors, marines, field clerks, and enlisted Army and Navy nurses who were unable to compete after April 6, 1917, and who are allowed 60 days from August 1, 1919, to do so, if they have been discharged prior to that date. Those discharged later will be allowed 60 days after discharge to compete; but, owing to our distance from the United States and the delay in receiving questions, all such persons should compete if possible on the date above mentioned.

These examinations will also be open to any other applicants desiring to be examined for the Panama

These examinations will also be open to any other applicants desiring to be examined for the Panama

Canal Service.

In addition to the examinations listed above, examinations for Stenographer, Typist and Stenographer-Typist in the Departmental Service in Washington, or elsewhere, will be held at Balboa Heights, C. Z. on December 7, 1919. These examinations are substantially the same as those for like positions with the Panama Canal Service, except that the minimum age limit is lower, namely 18 years. The entrance salary for typist is usually \$1,100 and that for stenographer \$1,200, in the United States, but for employment in civilian positions with the U. S. Army on the 1sthmus, the same salaries may be paid as in the Panama Canal Service.

Motor Vehicles and Bicycles Licensed in the Canal Zone.

For the calendar year of 1919 the following licenses have been issued for motor vehicles, which expire December 31, with the exception of the official licenses, which continue in force as long as the license tag is in good condition and the vehicle to which it is assigned

Personal licenses for private cars, 491; commercial licenses for cars carrying persons for hire, omnibuses, and trucks, 454; official licenses for automobiles and trucks of The Panama Canal, United States Army and Navy, and the Panama Government, 463; personal motor-

cycle licenses, 136; official motorcycle licenses, 142.

The total number of automobile licenses is 1,408, and the total of motorcycles, 278. As machines owned in Panama are licensed reciprocally in Panama, the foregoing figures include vehicles of both Panama and Colon and the Canal Zone.

The Canal Zone annual license fees are as follows:

For each passenger automobile for personal use only, \$5; for each automobile of 29 horsepower or less, used for carrying passengers for hire, \$20; for each automobile of more than 29 horsepower, used for carrying passengers for hire, \$30; for each truck or omnibus of oneton capacity or less, \$20; for each truck or omnibus of a capacity of more than one ton but less than three tons, \$30; for each truck or omnibus of a capacity of three tons or more, \$40; for each motorcycle, \$2.

Residents of the Canal Zone must secure a Canal Zone license first and are then entitled to the following reciprocal rates per year from

the municipalities of Panama and Colon:

For each passenger automobile for personal use only, \$1; for each automobile used for carrying passengers for hire, \$12.50; for each truck or omnibus, \$15; for each motorcycle, \$1.

The above reciprocal rates are also allowed residents of Panama, who are required to license their vehicles in Panama or Colon first, and may then receive a reciprocal Canal Zone license upon presentation

of their Panama or Colon license receipt.

Bicycles are licensed for the fiscal year at \$1 per year. There are 139 official bicycles licensed in the Canal Zone. Since July 1, 1919,

there have been issued 565 licenses for private bicycles.

As the present supply of 1919 automobile license tags for private cars, with blue background and white raised letters and numbers, No. 001 to 500, will be exhausted in a few days, it will be necessary to issue tags similar to those used on private cars in 1918, during the remainder of this calendar year. These tags have a white ground and black raised letters and will begin with No. 451 and run to No. 500.

Subscribers to Victory Liberty Loan.

Subscribers to the Victory Liberty Loan, who have changed their address since submitting their applications last April and May, should notify Mr. T. L. Clear, Treasurer, Liberty Loan Committee, Balboa Heights, in writing, in order that delivery of their Victory notes may be made without unnecessary delay.

Shortage of Electric Lamps.

The stock of 25, 40, 60 and 100-watt Mazda B lamps has been entirely exhausted. These are the sizes used in house lighting and most all other lighting, and it is recommended that employees conserve their lamps as much as possible until the new supply has arrived.

Part of the year's supply of lamps has been passed for shipment, but the unsettled labor and shipping conditions in the States makes it

impossible to state when these lamps will be received.

Balboa Night School.

Balboa Heights, C. Z., October 21, 1919.

The Balboa Night School will begin the 1919-20 session Tuesday, November 4, at 7 p. m. Classes will be offered in shorthand and typewriting, beginning and advanced Spanish, English grammar or literature, mechanical drawing, and commercial or shop mathematics.

Each class will be two hours in length, from 7 to 9 p. m., meeting twice each week. Beginning Spanish and English will be scheduled for Mondays and Thursdays; shorthand and typewriting as one class, advanced Spanish, and mechanical drawing will be scheduled for Tuesdays and Fridays. In case of sufficient demand a class in bookkeeping may be offered.

Four dollars per month per course is charged.

For further information telephone or write the High School Principal, Balboa, C. Z.

> A. R. Lang, Superintendent of Schools.

Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C." The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States. "Pancanal, Washington."

Mail for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

Official Circulars.

Appointment.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., October 15, 1919.

CIRCULAR No. 661-80:

The appointment of Dr. Dalferes P. Curry as Assistant Chief Health Officer, effective October 1, 1919, is hereby announced.

CHESTER HARDING, Governor.

Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT,

BALBOA HEIGHTS, C. Z., October 16, 1919.

CIRCULAR No. 217:

Effective October 13, 1919, Lieut. Com. J. G. Fels, L. S. N. R. F., is designated an accountable official of The Panama Canal, vice Capt. H. L. Eden, and as such w'll account for all nonexpendable property in use by the Captain of the Port, Cristobal.

H. A. A. SMITH, Auditor, The Panama Canal.

Approved:

CHESTER HARDING,

Governor.

Instructions Relative to the Handling of Two Labor Trains from Paraiso every Afternoon Daily except Sundays and Holidays.

PANAMA RAILROAD COMPANY, Office of Master of Transportation, Balboa Heights, C. Z., October 28, 1919,

CIRCULAR No. 1414: First labor train will leave Paraiso at 3.30 m., making stops with engine in so far as possible at the following track spans and other points:

Pedro	Mis	eu)	eł.													40-7
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Bisnop's Hollow, at switch leading to Ancon com-

missary.

Panama, first stop, north end of No. 8's train; second stop, about opposite hrst class passenger

On arrival at Panama after making the two On arrival at Panama after making the two stops and putting labor train away return with light engine to Paraiso, picking up the four labor cars and coach left there, back up to opposite Paraiso station convenient for employees to board cars, leaving Paraiso at 4.15 p. m., or as soon the statement of the property at
Pedro Miguel.
Red Tank. Miraflores station. Corozal commissary. Balboa Heights. Tivoli Spur.

Panama, north end of No. 8's train.

Crews handling these labor trains will leave Crews handing these labor trains will leave Balboa Heights station first trip north at 3.05 p. m., with one coach for the accommodation of school children living at Corozal. Pedro Miguel, and Paraiso. Coach to be handled only on school days. This coach and four labor cars will be left. days. This at Paraiso.

days. This coach and four labor cars will be left at Paraiso. Coach to be used by gold employees on second trip south.

On Saturdays and other days that labor train runs when there is no school, engine will go light to Paraiso, leaving Diablo at 3.15 p. m., and on arrival at Panama on first trip after making second stop at north end of No. 8 s train, the last gold

employees' car will be uncoupled from train and taken back to Paraiso for the accommodation of gold employees who use coach on school days. Circular No. 1410, issued under date of October 25, and all other instructions relative to above

labor trains, are hereby canceled.

W. J. BISSELL, Acting Master of Transportation.

Approved:

S. W. HEALD, Superintendent.

Passenger Train Service on November 3.

PANAMA RAILROAD COMPANY,

Office of Master of Transportation, Balboa Heights, C. Z., October 24, 1919. CIRCULAR No. 1405:

To all converned—On account of Monday, November 3, being a legal holiday, the Panama Railroad will operate regular Sunday schedule on the main line that date.

No change will be male in the Las Cascadas Branch nor Fort Randolph Branch schedules.

Acting Master of Transportation.

Approved: S. W. HEALD.

Superintendent.

Noon Hours of Work Train Crews.

PANAMA RAILROAD COMPANY, Office of Master of Transportation, Balboa Heights, C. Z., October 17, 1919.

CIRCULAR No. 1398:

Disputchers, conductors, and engineers, In the future, chain gang crews handling work trains through the midday period will take one hour for noon meal unless otherwise ordered by the department for which crew is working. If it is desired that crew work through noon hour the conductor will so notify the dispatcher at the first opportunity.

W. J. Bissell, Acting Master of Transportation.

Misdirected Letters.

Balboa Heights, C. Z., October 25, 1919.

The tollowing insufficiently addressed mail has been received in the office of the Director of Posts, and may be obtained upon request of the addres-No. 182, Balboa.
Anglin, David

Holgeson, Edw.

Andin, David
Bagley, Clarence
Beebe, Cornelius
Bonneville, E. H.
Bowman, Robert Paul
Brown, H.
Cara, Fred*
Clark, Mrs. Chas. A.
Cook, James Gordon
Damon, Quincy A.*
Dodge, Mrs. M. fl.
Doty, Charies
Edwards, Marguerite R Dodge, Mrs. M. H.
Doty, Charies
Edwards, Marquerite R. Reymonds, Thomas
Edwards, Marquerite R. Ruiz, Anastacio N.
Fauchier, Ernest
Follette, J. P.
Forbes, Egbert*
Geania, Mrs. Sarah
Grosch, Nicholas, Jr.*
Veyset, Jeanne
Ward, Phillip Raymond
Wignig, Lames Edwards, Marquerite R Fauchier, Ernest Follette, J. P. Forbes, Egbert* Geania, Mrs. Sarah Grosch, Nichol.18, Jr.* Haggerty, Jos. B. Harris, C. W. Haus, Mrs. H.

Holgeson, Edw.
Icaza, Octavio A. de*
Kline, Mr.
Krusi, Mrs. Robert
Lamb, Thomas k.†
Lowsky, Alexander
McAniff, Mrs. Johanna
Maloone, Mrs. Meselita
Mangnall, John N.
Mueller, Ernst
Noone, Patrick B.
Reymonds, Thomas

Wiggins, James Williams, Calvert

* Paper. † Special Delivery.

Additions to Commissary Scock

Additions to Commissary Beeck.	
Stoves, Florence, 2-burner, ea\$	14.85
Travs, round, enameled, ea	.54
Trunks, wardrobe, ea	43.20
Trunks, wardrobe, ea	39,30
Trunks, wardrohe, ea	31.45
Aprons, gingham, May time model, ea	1.05

Additions to Commissary Stock.

Chemise, envelope, embroidered Philip-		Flose, ladies' silk, medium gray, pr	\$2.50
pine, ea		Hose, ladies' silk, silver gray, pr	2.50
Corsets, white, Bon Ton, ca	3.45	Hose, ladies' silk, light gray, pr	2.50
Cuticle, comfort, cutex, jar	.27	Hose, ladies' silk, navy, pr	2.50
Dress goods:		Hose, ladies' silk, pearl, pr	2.50
Burlap, printed curtain, 36", yard	.46	Hose, ladies' silk, white, pr	2.50
Crepe, Raty, yd	.38	Hose, ladies' silk, pink, pr	2.50
Linen, white dress, 36", yd	.98	I'ose, ladies' silk, navy, pr.	1.95
Voile, Primavera printed, 26", yd	. 29	Nightgowns, embroidered, Philippine, ea	2,20
Voile, Primavera printed, 26", yd	. 29	Nightgowns, embroidered, Philippine, ea	3.15
Voile, Primavera printed, 26", yd	. 29	Pants, boys', olive drab, pr	1.05
Voile, Deauville printed, 39,40", yd	.49	Pens, fountain, Waterman's regular type.	1.05
Voile, Deauville printed, 39/49", yd	.49	ea	2.00
Voile, Deauville printed, 39/40", yd	. 49	Pens, fountain, Waterman's safety type, ea	2.40
Voile, Gainsborough printed, 35/36", yd.	. 55	Pens, fountain, Waterman's self-filling, ea	2.40
Voile, Gainsborough printed, 35/36", yd.	. 55	Polish, white, Cutex, cake	.27
Garters, ivory, pr	.30	Polish, pink, Cutex, cake	.27
Handkerchiefs, H. S. linen, ca	. 35	Polish, liquid, Cutex, bot	.27
Handkerchiefs, H. S. linen, ea	, 40	Polish, Cutex, tube	.27
Handkerchiefs, cotton, ea	. 28	Ronge, Cutex, jar	.27
Handkerchiefs, linen, embroidered, ca	. 90		. 21
Handkerchiefs, liner, fancy, ea	. 45	Stationery:	
Handkerchiefs, linen, fancy, ea	. 43	Books, memo, black leather, quad. ruled	
Hose, ladies' silk, Cordovan, pr	2.50	without printing, ea	.30
Hose, ladies' silk, African brown, pr	2.50	Suiting, linen, bleached, 45", yard	.82
Hose, ladies' sitk, black, pr	2.50	Ties, knit, 4-in-hand, ea	1.85
Hose, ladies' silk, brown, pr	2.50	Ties, knit, 4-in-hand, ea	1.85
Hose, ladies' silk, bronze, pr	2.50	Ties, knit, 4-in-hand, ea	1.40
Hose, ladies' silk, Chasseur blue, pr	2.50	Ties, knit, 4-in-hand, assorted, ea	2.85
Hose, ladies' silk, Champagne, pr	2.50	Ties, knit, 4-in-hand, assorted, ea	2.50
Hose, ladies' silk, green, pr	2.50	Towels, H. S. union, huck, 20 x 38, ea	. 45

COMMISSARY NOTES.

Commissary Closing Notice.

The groceries and cold storage sections and cigar counters of all commissaries will be open Monday, November 3, 1919, only from 8 to 9 a. m.

Mineral Water.

Club soda is now on sale at all commissaries. It is a carbonated water and is intended for those who seek a highly charged beverage without sweetening or flavor.

Variety of Stock Selection.

It will be of interest to commissary customers to learn that approximately 4,300 different items are carried in the retail stores, as follows: Grocery department, 716; hardware department, 1,244; boots and shoes department, 329; dry goods department, 1,823; and cold storage department, 229.

Hosiery.

A shipment of ladies' silk hose in all the latest and most fushionable shades, including cordovan, African brown, bronze, Chasseur blue, champagne, green, medium gray, silver gray, light gray, black, pearl, navy, white and pink, has recently been received and placed on sale in the commissaries. These are priced at \$2.50 per pair. Not only are these in demand it shades matching evening gowns, but with white Oxfords are used for wear with sports clothes.

Cost of Water Ices Reduced.

Effective October 21, the retail prices of sherbets, or water ices, manufactured by the Commissary Division were reduced to the following: Pineapple, 70 cents per gallon, strawberry, \$1.10 per gallon, orange, 70 cents per gallon, lemon, 50 cents per gallon. The new selling prices are not standard for it has been found that the cost of making sherbet varies widely, according to the flavor, and that therefore a standard selling price for all flavors can not be exact.

Souvenirs.

Splendid views of an epochal naval event, the passage through the Panama Canal of the new Pacific Fleet, United States Navy, in July, 1919, are provided in a 24-page booklet of attractive form, recently stocked by the Commissary Division. The cover of the booklet shows, in two colors, the U. S. S. Rhode Island in Gatun Lake. The booklet also includes several miscellaneous views taken in the Canal Zone. These are designed to give a general idea of the towns and country adjacent to the Canal. The price of the booklet is 40 cents.

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THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address
The Panama Canal Record, Balboa Heights, Canal Zone, or
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Entered as Second-class matter, February 6, 1918, at the Post Office
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Volume XIII. Balboa Heights, C. Z., November 5, 1919.

No. 12.

CANAL WORK IN SEPTEMBER.

The following is the report of the Governor to the Secretary of War, of Canal work in the month of September, 1919:

Balboa Heights, C. Z., October 22, 1919.

The Honorable, the Secretary of War,

Washington, D. C.

SIR: I have the honor to submit the following report of The Panama Canal for the month of September, 1919:

CANAL TRAFFIC.

The number of ocean-going commercial vessels passing through the Canal for the month was 170, exclusive of 13 United States Government vessels, as follows: One cruiser, 1 mine depot ship, 4 destroyers, 1 mine-planter, 2 tugs, 3 merchant ships with coal for the Navy, and 1 Coast and Geodetic Survey ship. The total number of ocean-going vessels was 183, in addition to which 1 launch went from Atlantic to Pacific, and 3 from Pacific to Atlantic.

Classifications of the traffic are shown in the following tabulations. The net tonnage of 170 commercial ships aggregated 586,186 tons, Panama Canal measurement, and was 75 tons more than that of commercial ships passing through the Canal in August, when 188 ships of 586,111 tons made the transit. Their registered gross tonnage was 765,050 tons, and their registered net tonnage 488,395 tons. The cargo carried totaled 638,270 tons of 2,240 pounds, and was 77,454 tons less than that handled in August. Of that in September, 1919, 7,921 tons were carried as deck load. Ships of 10 different nationalities were included in the month's traffic.

The United States coastwise trade was made up of 17 vessels, aggregating 61,156 tons, Panama Canal measurement, and carrying 80,948 tons of cargo. From Atlantic to Pacific, 2 ships with a total net tonnage of 9,065 tons, Panama Canal measurement, made the transit, carrying 15,469 tons of cargo. From the Pacific to the Atlantic there were 15 vessels of 52,091 tons, carrying 65,479 tons of cargo.

The United States Shipping Board operated 1 of the westbound ships in the coastwise trade, with a net tounage of 1,742 tons, Panama Canal measurement, carrying 4,000 tons of cargo, and 13 of the 15 vessels eastbound. The net tonnage of the 13 ships from Pacific to Atlantic aggregated 44,627 tons, and their cargo amounted to 65,479 tons.

PRINCIPAL COMMODITIES.

The bulk shipments from Atlantic to Pacific were: Crude oil, 61,486 tons, of which 9,261 tons were from Tampico to Antofagasta, 9,500 tons from Puerto Lobos to San Francisco, 9,725 tons from Tampico to Pisagua, 10,500 tons from Puerto Lobos to Tocopilla, 9,400 tons from Tampico to San Pedro, 3,500 tons from Tampico to Chanaral, and 9,600 tons from Tampico to Tocopilla; petroleum, 32,115 tons, of which 8,150 tons were from New York to Honolulu, 11,469 tons from Beaumont to San Francisco, and 12,496 tons from Tuxpan to Pisagua; kerosene, 22,571 tons, of which 13,456 tons were from New Orleans to Shanghai, and 9,115 tons from New Orleans to Honolulu; coal, 9,248 tons, of which 6,907 tons were from Newport News to Lyttleton, and 2,341 tons from Norfolk to Papudo; scrap iron, 935 tons from Cristobal to San Francisco; mixed cargoes aggregated 31,501 tons, of which 4,613 tons were from London to Valparaiso, 9,200 tons from New York to Honolulu, 4,116 tons from New York to Callao, 6,555 tons from New York to Manila, 3,259 tons from Baltimore to Cuayacan, and 3,758 tons from Baltimore to Carrizal; 37 cargoes described as "general," amounted to 123,658 tons.

From the Pacific to the Atlantic the principal commodities were lumber, of which 24 whole cargoes, aggregating 43,640 tons passed through the Canal, 17 ships carrying 32,185 tons for Great Britain, 5 ships 9,189 tons to Atlantic ports of the United States, 1 ship 1,326 tons to Nipe, Cuba, all from the west coast of North America; and 1

ship carrying 940 tons of dyewood and cedar to Cristobal, from Puntarenas, Costa Rica; 4 cargoes of barley from San Francisco, 10,375 tons bound for England, and 2,889 tons for Copenhagen; flour, 6 whole cargoes, 46,334 tons, from Portland and San Francisco, 24,943 tons to Norfolk and Newport News, 14,248 tons to Gibraltar, and 7,143 tons to New York; nitrates, from Iquique and Pisagua for the United States, 3 whole cargoes, aggregating 13,099 tons; wheat, 2 whole cargoes from Portland, 7,600 tons to Newport News and 6,422 tons to Gibraltar; sugar, 8,975 tons in 2 shipments, 7,879 tons from Honolulu to Philadelphia and 1,096 tons from Eten to Cristobal; and 1 whole cargo each of canned fruit, 8,600 tons, from San Francisco to Liverpool; dried fruit, 1,270 tons from San Francisco to Sweden; 1,445 tons of cottonseed, from Supe, Peru, to Bristol; and manganese ore, 880 tons, from La Union to Baltimore. Twenty-one cargoes were "mixed," containing several commodities, aggregating 95,556 tons, and 21 contained the variety designated as "general," amounting to 73,827 tons.

Ships in ballast numbered 7 from the Atlantic, with an aggregate net tonnage of 28,376 tons, Panama Canal measurement, and 10 from Pacific to Atlantic, of 47,664

net tons, a total of 17 ships of 76,040 tons.

LATIN-AMERICAN TRAFFIC.

Commercial vessels passing through the Canal on their way to the west coast of Central and South America during September were, by nationalities, as follows:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
British	3	28,771 12.894 12,641 14,753 8,134 6,899 75,536	17,651 7,793 7,583 9,196 5,046 4,417 45,644 97,330	21,282 11,111 8,272 11,612 5,900 6,653 56,298	Tons. 24,413 3,608 2,501 13,377 82 75,618 119,599

Of the 40 vessels, 17 with 12,193 tons of cargo originated at the Atlantic terminus of the Canal; 12 with 43,306 tons came from United States ports; 4 with 32,086 tons of oil from Tampico; 1 with 10,500 tons of crude oil from Puerto Lobos; 1 with 12,496 tons of petroleum from Tuxpan; 3 with general cargo from Europe, amounting to 9,018 tons; 1 with no cargo from Newcastle and 1 with no cargo from Cibraltar.

Shipments from the west coast of Central and South America through the Canal during September were carried by 31 vessels. Three were bound for Creat Britain with 10,191 tons of cargo from Chilean and Peruvian ports; 5 were bound for Tampico in ballast; 7 for the United States; and 16 completed the voyage at the Atlantic terminus of the Canal, discharging 1 bulk cargo of sugar amounting to 1,096 tons, and 17,870 tons of general cargo.

By nationalities the ships from the west coast of South and Central America were as follows:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
British Norwegian Chilean Peravian United States	11 2 3 4 11	35,381 14,009 9,080 12,913 37,749	21,332 8,859 5,505 7,869 22,890	25,127 10,309 8,078 8,954 26,362	Tons. 14,552 5,369 6,786 20,164
Totals .	31	109,132	66.455	78,830	46,871

PRINCIPAL TRADE ROUTES.

The distribution of the traffic through the Canal in September, 1919, according to the principal trade routes, was as follows:

	Ves- sels.	Panama Canal net tonnage.	Cargo.
Atlantic to Pacific.			Tons.
United States coastwise	2	9.065	15,469
United States to South America	12	39,407	43,306
Europe to South America	5	23,303	9,018
Cristobal to South America	17	25.725	12.193
Europe to west coast of North America	1	3.789	
Europe to Australia and New Zealand.	3	15.702	* 8,997
United States to Australia and New Zealand.	4	23,356	31,505
United States to Far East	15	74,166	113,964
Cristobal to west coast of North America.	4	6,100	6,484
Mexico to west coast of North America	2	10,646	18,900
Mexico to west coast of South America.	6	32,753	55,082
Miscellaneous	1	1,713	2,440
Total.			
	72	265,725	317,358
Pacific to Atlantic.			
United States coastwise.	15	52,091	65,479
West coast, North America to Europe.	31	74,181	98,532
West coast, South America to United States	7	19,918	17,714
West coast, North America to Cristobal.	3	5,373	3,161
West coast, South America to Cristobal	16	22,169	18,966
West coast, South America to Mexico	5	25,624	(*)
Australia and New Zealand to Europe. Far East to east coast of North America.	10	76,661	72,401
Australia and New Zealand to east coast of North America	2	9,984	15,730
West coast, South America to Europe	2	9,333	11,182
West coast, North America to Mexico	3	11,119	10,191
Far East to Europe	1	6,385	(*)
Miscellageous.	2	5,531	6,230
	2	2,092	1,326
Total	98	320,461	320,912

SERVICES TO CANAL SHIPPING.

Repairs were made on 111 vessels during the month, 68 at Cristobal and 43 at Balboa. Ten vessels were dry-docked at Cristobal and 10 at Balboa. Sales of fuel oil to ships from stock of The Panama Canal, were 814 barrels to 4 vessels at Cristobal and 3,367 barrels to 1 vessels at Balboa. Coal sales were 38,739 tons to 116 vessels at Cristobal and 5,313 tons to 26 vessels at Balboa, a total of 142 vessels receiving 44,052 tons. Water sold included 10,246,395 gallons to 190 vessels at Cristobal and 3,266,250 gallons to 120 at Balboa, a total of 13,512,645 gallons to 310 vessels. Sales of commissary supplies to commercial ships of lines other than that of the Panama Railroad, aggregated \$84,732.44, of which \$54,458.78 worth, including \$1,693.79 for laundry, was supplied at Cristobal, \$6.60 at Gatun, and \$30,267.06, including \$714.12 from Ancon laundry, at Balboa. Laundry service for all ships amounded to \$3,965.53. Tug service performed for vessels using the Canal and the terminal ports was charged at \$20,398.35, of which \$11,411.25 was collected through the office of the Captain of the Port at Cristobal and \$8,987.10 at Balboa.

STATEMENT OF OPERATIONS.

Details of the business transacted at the Atlantic and Pacific terminals of the Canal are shown in the following tabulations:

	Item.			Cristobal.	Balboa.	Total.		
Commercial ships making transit of Canal. Net tonnage of cemmercial ships, Panama Canal measurement. United States equivalent net tounage of commercial ships. Registered gross tornage of commercial ships. Registered net tonnage of commercial ships. Cargo through Canal in commercial ships, tous of 2,240 pounds. Deck load cargo, included in above. Nationality of commercial ships through Canal:					72 265,725 220,004 346,348 215,205 317,358 426	98 320,461 272,358 418,702 273,190 320,912 7,495	170 586,186 492,362 765,050 488,395 63×,270 7,921	
British Vorwegian. Peruvian					 	25 4 3	26 5 4	51 , 9 , 7
French Chinese Chilean						1 4	5	5 1 7
Swedish Japanese Dutch United States						6 2 27	1 1 53	1 7 2 80
Total						72	98	170

Item.	Cristobal.	i Baltoa.	Total.
	Criscopai.	Dairoa.	10181.
Panama Canal net tonnage of commercial ships through the Canal:	00.020	110 200	200 404
British Norwegian			208,420
Peruvian	. 8,272	8,954	30,47 17,22 6,37
French. Chinese	3,801	6,379	6,37
Chilean	11,111	8,078	3,80 19,18
Swedish		.] 3.967	3,96
Japanese Dutch	. 31,097	5,620	36,71 11,82
United States.	. 11,823 92,835	155,357	248,19
m-4-1			
Total United States equivalent net tonnage of commercial ships through the	. 265,725	320,461	586,180
Canal:	1		
British Norwegian	77,973	99,139	177,111
Peruvian	6.846	12,303 6,914	26,25 13,76
French		5,861	5,86
Chinese Chilean	3,707 6,891	4,928	3,70° 11,81°
Swedish		2,307	2,307
Japanese	27,506	4,545	32,05
Dutch. United States	8,477	136,261	8,477 $211,010$
Total	220,004	272,358	492,362
British	116.838	152,871	269,709
Norwegian	21,791	18,059	39,850
Peruvian. Freneh.	12,641	12.913 10,131	25,554 10,131
Chinese	5.174	10,131	5,174
Chilean	12,894	9,080	21,374
Swedish Japanesc	41,284	3,774 7,085	3,774 48,369
Duteh	13,593		13,593
United States	122,133	204,789	326,922
Total	346,348	418,702	765,050
Total			
British Norwegian	73,171 13,616	97,521	170,692 25,898
Peruvian	7.583	12,282 7,869	15,452
French		6,363	6,363
Chilean	3.707 7,793	5,505	3,707 13,298
Swedish		2,875	2,875
Japanese	26,219 8,643	4,387	30,606 8,643
United States.	74,473	136,398	210,861
	015 005		400 205
Total Cargo earried by ships of various nationalities:	215,205	273,190	488,395
British	104,454	107,565	212,019
Norwegian Peruyian	22,777 2,501	5,582 6,786	28,359 9,28 7
French	2,301	6,487	6,487
Chinese	6,300		6,300
Chilean Swedish	3,608	5,369 1,270	8,977 1,27 0
Japanese	43,706	9,420	53.126
Dutch. United States.	8,232 125,780	170 499	8,232
	120,780	178,433	304,213
Total	317,358	320,912	638,270
V. S. Navy cruisers	1		1
U. S. Navy Mine Depot ships	1		î
U. S. Navy destroyers	4		4.2
U. S. Navy tugs. U. S. Army mine-plar ter.	2	1	1
U. S. Coast and Geodetic Survey ship.	1		1
Merchant ships with coal for Navy	3		3
Total	12	1	13
aunches Net tonnage of launches, Panama Canal measurement	1	3	4.
otal ocean-going ships transiting Canal	5 84	5 99	10 183
otal vessels transiting Canal	85	102	187
argo on which no tolls were charged. ommercial ships through Canal without cargo, but not in ballast.	22,295		22,295
Net tonnage of above, Canal measurement	28,376	483	28,859
ommercial ships through Canal in ballast		10	10
Net tonnage of above, Canal measurement otal of commercial ships without cargo transiting Canal		47,694	47,664 18-
Net tonnage of above, Canal measurement.	28,376	48,147	76,523

Item.	Cristobal.	Balboa.	Total.
			7
Motor ships through Canal. Net tonnage of motor ships, Canal measurement. Sailing ships through the Canal. Net tonnage of sailing ships, Canal measurement.	69	8,317 6 8,665	8,386 6 8,665
Yachts through the Canal Net tomage of yachts, Canal measurement Tolls levied on laden ships through the Canal		1 483	1 483
Tolls levied on laden ships through the Canal. Tolls levied on ships in ballast.	\$244,199.70	\$290,801.45	\$535,001.15 34,372.74
Tolls on launches.	6.00	4 90	10.90
Total tolls levied Total ships entering port, including Canal transit	\$244,205 70 214	\$325,179.09 192	\$569,384.79 406
Total snips clearing port, including Canal transit	211	378	397
Total ships nandled. Net registered tonnage of vessels entering port. Net registered tonnage of vessels clearing port.	425 648,270 633,744	535,740 530,684	803 1,184.010 1,164.428
Total for vessels entering and clearing.		1,066,424	2,348,438
Registered gross tonnage of vessels entering. Registered gross tonnage of vessels clearing.	1,282,014 1,008,008 984,429	827,014 819,447	1,835,022 1,803,876
Total registered gross tonnage of vessels entering and clearing	1,992,437	1,646,461	3,638,898
Vessels entering port, but not passing through Canal. Net tonnage of above.	43 127,758	4 11,014	47 138,772
Gross tonnage of above. Vessels clearing port, but not passing through Canal.	207,358	16,746	224,104 42
Net tonnage of above	117,176 190,676	11,995 18,514	129,171 209,190
Gross tonnage of above. Vessels passing through Canal, and handling passengers or eargo at port entered	29	32	61
Net tonnage of above. Gross tonnage of above. Vessels passing through Canal, and handling passengers or eargo at port	65.407 107,589	46,174 76,468	111,581 184,057
eleareti. Net tonnage of above.	29 62,843	32 46,174	61 109,617
Gross tonnage of above. Transit cargo arriving tons	103,434 668,184	76,468 655,435	179,902 1,323,619
Transit eargo eleared. tons. Local eargo arriving tons.	663,060	578,967 14,217	1,242,027 42,971
Local cargo shipped	28,754 3,252	433	3,685
Total local cargo handledtons Total local and transit cargo arrivingtons	32,006	14.650	46,656
Total local and transit eargo cleared tons. Cargo received by Receiving and Forwarding Agency of P. R. R. tons.	696,938 666,312	669,652 579,400	1,366,590 1,245,712
Cargo dispatched by Receiving and Forwarding Agency of P. R. R. tons Cargo rehandled by Receiving and Forwarding Agency of P. R. Rtons	60,406 58,540 1,159	3,012 3,675 1,636	63,448 62,215 2,795
Total cargo bandled by Receiving and Forwarding Agency of P. R. R. tons.			
Cargo stevedored, included in abovetons	120,105 53,292	8,353 1,054	128,458 54,346
Commercial vessels other than P. R. R. supplied with bunker coaltons Coal supplied to commercial vessels other than Panama Railroadtons Panama Railroad vessels supplied with bunker coal	34,928	4,914	115 39,842
U. S. Navy vessets supplied with bunker coal.	699	1 1	700
Coal supplied U. S. Navy vessels tons. U. S. Army vessels supplied with coal.	2,838	352	3,190
Total vessels supplied with earl	274 106	46 26	320 132
Total coal furnished to vessels. tons Coal supplied Panama Railroad departments. tons	38,739 642	5,313	44,052 682
Coal supplied The Panama Canal tons Coal supplied The Panama Canal tons Coal supplied individuals and companies tons	94 1,941	695	94 2,636
Total coal furnishedtons	41,868	6,048	452
Coal on hand, October 1tons.	14,937 59,685	12,114 9,066	47,916 27,051 68,751
Vessels supplied with water. Water sold to ships. gals	190 10,246,395	3,266,250	310 13,512,645
Vessels dry-docked. Commercial vessels furnished commissary supplies.	10	10 71	20 202
Panama Railroad vessels furnished commissary supplies. Other U. S. Government vessels furnished commissary supplies.	10 21	16	10 37
Total vessels furnished commissary supplies. Commissary sales to commercial vessels.	162	87	249
Vholesale groveries	\$1,249 46 12,343.58	\$805.19 6,669.91	\$1,854.65 19,013 49
Wholesale cold storage	35,905.33 1,693.79	18,941.98	54,847.31 1,696.86
Miscellaneous. Total.	3,266.62	3.332.79	6,599.41
	\$34,438.78	\$29,552.94	\$84,011.72

Item.	Cristobal.	Balboa.	Total.
Commissary sales to Panama Railroad vessels: Iee. Wholesale groceries. Wholesale cold storage. Laundry. Miscellaneous	\$57.75 1,391 38 6,893 53 614 84 994.38		\$57.75 1,391.38 6,893,53 614.84 994.38
Total Commissary sales to other Government vessels: lee. Wholesale groeeries Wholesale cold storage. Laundry. Miscellaneous	\$9,951 88 \$626.88 2,172.47 16,863 06 799.81 1,089.48	\$361.57 4,023.25 15,460.14 139.90 208.21	\$9,951.88 \$988.25 6,195.72 32,323.20 939.11 1,297.69
Total	\$21,551.70	\$20,192.87	\$41,744.57
Total commissary sales to vessels. Fuel oil sold to commercial vessels. Fuel oil issued to U. S. Navy. Fuel oil issued to U. S. Army. harrels. Fuel oil issued to C. S. Army. barrels. Fuel oil issued to Canal departments. barrels Other sales, issues, and consumption at plant. barrels	\$85,962.36 814 200 638 6,562 296	\$49.745.81 3,367 198 14,235 184	\$135,708.17 4,181 200 836 20,797 474
Total furnished trom Canal tanks barrels		17,984 81,731 11,764 17 1,499	26,488 97,371 225,220 17 1,499
First eabin Other than first eabin	3,107 3,308	1,809 2,449	4,916 5,757
Total Total passengers departing including transit passengers:	6,415	4,258	10,673
Total passengers departing including transit passengers: First cabin. Other than first cabin.	3,209 4,189	1,795 2,414	5,004 6,603
Total Total movements of passengers. Passengers disembarking:	7,398 13,813	4,209 8,467	11,60
First cabin Other than first cabin	1,567 734	233 101	1,800
Total	2,301	334	2,638
First cabin. Other than first cabin.	1,867 2,180	219 66	2,086 2,246
Total. Services to American seamen: Seamen shipped. Seamen paid off. Seamen deserted. Seamen lodged, subsisted, and repatriated.	138 88	285 63 51 6	4,333 20 13 18 2
Total scamen handled Seamen's wages received Seamen's wages disbursed. Seamen's wages disbursed. Seamen's wages on hand, September 30. Services to American vessels: Crews shipped.	\$8,928.07 3,408.84 12,336.91	\$3,423.59 1,495.60 4,180.19	582 \$12,351.66 4,904.44 16,517.10
Crews paid off. Shipping articles written. Marine notes of protest noted.	1	2 7	23

LOCK OPERATIONS.

Lockages of commercial vessels were made during the month as follows:

	Number of lockages.			Numl	Number of vessels.		
	North.	South.	Total.	North.	South.	Total.	
Gatun. Fedro Miguel. Miraflores	97 100 93	71 76 72	168 176 165	99 100 99	75 77 75	174 177 174	

Lockages of Army and Navy vessels, vessels operated by The Panama Canal, and of commercial vessels, are included in the following summary of all lockages during the month:

Lockages.	Gatun.	Pedro Migael.	Miraflores.
Commercial lockages Noncommercial, United States Army and Navy Canal equipment	6	176 6 29	165 5 31
Total	176	211	201
Commercial vessels Noncommercial, United States Army and Navy and Canal	174 27	177 75	174 75
Total	201	252	249

Water consumed for all lockages amounted to 1,367,930,000 cubic feet, that used at Pedro Miguel becoming available for second use at Miraflores locks. Consumption of water by the locks during the month was as follows:

	Gatun.	Pedro Miguel.	Miraflores.
Lockage Leakage Maintenance	20,000,000	Cubic feet. 633,280,000 29,520,000 27,390,000	Cubic feet. 607,600,000 15,000,000 8,240,000
Total	754,650,000	690,190,000	630,840,000

METEOROLOGY.

Rainfall during the month was above the average at 11 stations and deficient at 8 stations, the deficiency being well marked over the Atlantic section. Rainfall totals ranged from 8.33 inches at Miraflores to 22.52 inches at the Indio station on the upper Chagres. The greatest precipitation in 24 hours was 3.96 inches, at Monte Lirio on

A slight seismic disturbance was recorded at Balboa Heights on the evening of September 26. Although the maximum amplitude of the record was 10 millimeters, so far as is known no one in this vicinity felt the quake. The epicenter of this disturbance was about 370 miles distant. The principal waves moved in a north-south direction, but the seat of the disturbance is unknown.

The Chagres River discharge at Alhajuela was 7 per cent below the 18-year September average, or 2,996 c. f. s. against a mean of 3,232 c. f. s. The Chagres furnished 33 per cent of the Gatun Lake total yield. There was one freshet in the Chagres River during the month with a rise of more than 5 feet at Alhajeula.

The elevation of Gatun Lake on September 30 was 85.47 feet, as compared with

85.29 at the end of the prior month.

A severe wind storm occurred at Gamboa on the afternoon of September 26, during which a maximum velocity of 50 miles an hour was recorded from the northeast. The two unloading cranes at the Gamboa gravel plant were overturned and wrecked, causing damage estimated at about \$20,000.

ELECTRICAL DIVISION.

Gatun hydroelectric station—The net output of the hydroelectric station for the month of September was 5,060,617 K. W. H., and the computed water consumption

was 3,925,910,000 cubic feet.

Miraflores steam plant—The net output of the steam plant was minus 165,170 K. W. H., and the oil consumption was 2,054.46 barrels. The removal of a span of the bridge at Gamboa and cutting the transmission line on September 29 made it necessary for the Miraflores plant to carry for $2\frac{1}{2}$ hours all of the load on the system south of Gamboa. Seven extra boilers and three extra turbines were thrown into service for this.

Total power output—The total power output for both generating stations was 4,895,447 K. W. H., and the total amount of power distributed to feeders by substations and generating plants was 4,366,387 K. W. H., representing an energy loss

of 10.8 per cent.

Transmission line—There were 3 interruptions to transmission service during the month, due respectively to an animal on the line, failure of a roof bushing, and failure of insulator and bushing during a severe lightning storm. The maximum in-

terruption of service to any station was 35 minutes.

Marine work—Repairs and additions of electrical equipment were made at Cristobal on the following vessels, under 15 work orders: Middlebury, Dakotan, Madawaska, Aimwell, General Ernst, Cansumset, Gray Eagle, West Harsaw, Fort Wright, Advance, Boxbutte, Benoni, and Colon. Work was in progress at the end of the month on the cable ship Cyrus W. Field, dredge Gamboa, steamship Caribbean, U. S. M. P. Graham and the steamship Colon. At Balboa, electrical work was done on the following vessels: Anubis, Cristobal, barge No. 13, barge No. 29, Azov, Guardian, Oro-

tina, Aimwell, tug Empire, Kangi, Graham, Los Angeles, Bushrod, clapet No. 7, Falketind, Ardmore, Okiya, dredges Corozal and Cascadas, Ulysses, tug Gorgona, dredge No. 86, Bonifay, dredge No. 84, Melville, Adela, Asotin, Medford, Cresap, Buhisan,

and tug Gatun.

New construction-Installation of electrical equipment at Mount Hope cold storage plant remains about the same as last month, 96 per cent completed. Electrical installation at Pier 6, Cristobal, was advanced from 80 to 95 per cent of completion. Electrical work at the slaughterhouse at Mount Hope was completed during the month. There were 378 work orders issued for work to be performed by different sections of the Electrical Division during the month.

SHOPS, FOUNDRY, AND DRY DOCK WORK.

The repairs to the ex-German vessel Anubis (renamed Paita) were completed except for finishing touches and trial. Steam was raised on the ship's boilers for the

first time and a short preliminary trial was held on September 30.

The work on the outside hull of the steamship *Cristobal*, below the water line, incidental to converting to oil burning, and overhaul of machinery were completed, and the vessel was removed from dry dock. Satisfactory general progress was made on the vessel during the month. A considerable amount of steel work for the fuel oil tanks and miscellaneous water-tight subdivision was erected and partly riveted.

A number of small jobs were performed on naval vessels transiting the Canal. The usual run of water-front repairs was accomplished; this class of work being

particularly heavy, especially on wooden ships.

Steel reinforcing knees were worked under the stern of the steamship Bushrod to

strengthen the overhanging rudderpost of the vessel.

The boilers of the steamship Aimuell were rebuilt and the engines completely overhauled, including realignment and refitting of all brasses.

A general overhaul of a similar nature, but to lesser extent, was given the machinery

of the wooden steamships Okiya, Bonifay, and Asotin.

At the Cristobal shops the following vessels arrived for repairs: Steamships Chetac, Adolph Weerman, Afalkey, Finnisterre, Chimo, Santa Alicia, Albert Metin, Boxbutte, West Harsaw, Adway, Chiquimala, Salvador, Fonduco, Arapasho, West Cayoté, Slavic Prince, Chili, Iquitos, Mannel Calvo, Jamaica, Kangi, Balboa, Panama, Allianca, Colon, Middlebury, Culebra, Advance, General Ernst, Lake Wilson, Lake Hurst, Lake Graphite, Ucayali, Coppename, Bassano, Hudson, Mt. Hamilton, Imperial, C-39, St. Louis, Erie, Mahnet, Tripp, Urubamba, C. W. Ficlds, Caddo, Dakotan, Ft. Logan, Saucon, Umatilla, Cansumset, Metapan, Corvallis, Delaura, Huasco, Cauca, Nortonian, Crowley, derrick barge No. 157, barge No. 17, tug Engineer, U. S. A. T. Madawaska, A. G. Forse, U. S. M. T. Graham, U. S. A. T. Buford, launch Wilhelm, motor schooner Laura C. Hall.

Of the above, the following were in dry dock during the month: Crowley, derrick barge No. 157, barge No. 17, Salvador, C. W. Fields, Laura C. Hall, Graham, launch

Wilhelm, tugs Engineer and A. G. Forse.

At the Cristobal shops 211 individual and company job orders were issued during the month, 1 of which was for work on a submarine, and 2 on other Navy craft. Of the remaining 208, 86 covered repairs to ships making this port or in transit of the Canal, exclusive of Panama Railroad ships. The work of overhauling the steamship Culebra prior to turning over to the Dredging Division was continued during the month. The extension of the shops' tool room and the laying of concrete in same were completed during the month. The extension of an air line to and on pier No. 6,

Cristobal, was continued during the month.

Work was performed at the Balboa shops during the month for the following vessels: Kangi, Azov, Bushrod, Aimwell, Cristobal, Anubis, Aysen, Gray Eagle, Lompoc, Los Angeles, Santa Alicia, Ardmore, Okiya, Ulysses, Coalinga, Bonifay, Slavic Prince, Asclin, Joan of Arc, Medford, Brasher, Buhisan, Minnequa, Delfina, cable ship Guardian, U. S. M. P. Graham, M. S. Patridge No. 16, Cardinal, South Dakota, Lydonia, Melville, Dorsey, destroyer No. 106, destroyer Bailey, motor ships Santa Elena, Orotina, Chiriqui, Adela, and Laura C. Hall, schooners Falketind,

and Ludlow, dredge Corozal, and steamship Cresap.

The following vessels were in dry dock at Balboa during the month: Cable ship Guardian, tug Bolivar, tug Gatun (twice), steamships Aysen, Cristobal, Bushrod, and Anubis (Paita), dredge Corozal, and U. S. S. Melville.

Foundry output, compared with that of August, was as follows:

	September.	August.
Iron	Pounds 117,173 26,361 27,097½	Pounds. 130,2261 34,860 28,0861

Equipment was hostled as follows: Locomotives, 1,554; cranes, 200; making a total of 1,754. Two hundred and twenty-eight shop and 1,382 field repairs were made on cars, 788 freight cars were repacked, and 3,100 passenger coaches were packed, cleaned, oiled, and inspected.

BUILDING CONSTRUCTION.

Erection of the Puerto Obaldia radio station was 75 per cent completed at the end

of the month.

Installation of abattoir equipment at Mount Hope, the machine shop at Mount Hope, and the ten 12-family silver quarters, Mount Hope, were all completed during

The office for the Lighthouse Subdivision at Gatun was completed.

The office building for the Central and South American Telegraph Company at

Balboa, was 55 per cent completed at the end of the month.

Terminal construction—On Pier No. 6, Cristobal, the doors were 99 per cent completed, cranes, 50 per cent completed, and washing walls, 90 per cent completed at the end of the month. Placing concrete floor slabs in the reconstruction of the Royal Mail pier, Colon, was 50 per cent completed.

DREDGING DIVISION.

The total excavation by dredges during the month of September was 236,825 cubic yards, as follows:

Cubic yards.	Classif	ied as:	Character of work.	Stations,	Equipment.
a 10,000 a 28,125 b 46,600 c 20,300 c 30,000 c 6,400 d 84,900 d 10,500	10,000 20,000 46,600 20,300 30,000 6,400 15,900		Maintenance	1746-50 to 1741-00 W	No. 84. Cascadas. No. 86. No. 84. Gamboa.

(b) Pacific entrance. (a) Gaillard Cut.

(c) Balboa inner harbor.

(d) Atlantic terminal.

The following disposition was made of the excavated material: Forty-six thousand six hundred cubic yards were dumped in the San Juan fill; 20,300 cubic yards at sea beyond the Pacific entrance; 36,400 cubic yards in Diablo Dump "A;" 38,125 cubic yards in Gatun Lake, north of Gamboa; and 95,400 cubic yards between the east end of the East Breakwater and Margarita Point.

The excavation remaining to be done in the Canal prism on October 1, was 173,200 cubic yards of earth and rock, and from the Cristobal coaling station and Balboa

inner harbor, 2,100 cubic yards, and 167,800 cubic yards, respectively. The total construction excavation to be done is comprised of 215,700 cubic yards of earth and

127,400 cubic vards of rock.

Mindi dykes and groins were maintained, the destruction of water hyacinths was continued, weekly surveys were made covering stations 1795 to 1775 and 1750 to 1738, and both of these areas were dragged daily. Surveys were made behind the dredges in the Pacific entrance, Balboa inner harbor, Gaillard Cut, and Atlantic terminals. Charts of all dredged, mined, and surveyed areas were prepared.

MUNICIPAL DIVISION.

The truck and cart oil-filling station at the Mount Hope oil handling plant was completed during the month. No work was done on the installation of water lines for the cold storage plant, or on the roads, and water and sewer lines for the group of 12-family silver quarters at Mount Hope. In the installation of the circulating water system for the cold storage plant, 1,905 linear feet of 20-inch dredge pipe were embedded in concrete, excavation and backfilling were carried on, and the work as a whole advanced to 85 per cent of completion. Grading and filling for the new silver townsite were 75 per cent completed; 11,507 cubic yards of fill were placed during September. The construction of sewer from North Avenue, Panama, to the beach was 50 per cent completed; work during the month included excavating 1,226 cubic yards, placing 835 cubic yards of backfill, and constructing 437 linear feet of box sewer, averaging approximately 4 by $4\frac{1}{2}$ feet in cross section.

Water pumped in the northern district amounted to 217,168,500 gallons, and in the southern district to 569,711,000 gallons, making a total of 786,879,500 gallons, as compared with 825,345,000 gallons in August, Colon was furnished with 53,230,000 gallons, Panama with 86,526,000 gallons, and 13,512,645 gallons were sold to 310 ships. The incinerator at Gavilan Island burned 2,104 tons of garbage and 31 dead

animals during September.

WORKING FORCE. Effective September 24, 1919.

Department or Division.	Gold.	Silver.	Total.
Operation and Maintenance:			
Office	43	44	87
Building Division	298	1,952	2,230
Electrical Division	259	370	629
Municipal Engineering Division	125	2,467	2,592
Lock Operation		599	763
Dredging Division		844	991
Mechanical Division	963	1.827	2,790
Marine Division	140	374	514
Fortifications.	64	265	329
* Of the office	01	200	020
_Total	2,203	8.722	10,925
Supply Department:	2,200	0,122	10,920
Ouartermaster	157	1,802	1,959
Subsistence.		404	434
Commissary		1,586	1,835
Cattle Industry—Plantations.		708	740
Accounting.	247	11	258
Health		1,069	1,309
Executive	482	162	664
Panama Railroad:		_	
Superintendent		537	605
Transportation.		281	438
Receiving and Forwarding Agent.	99	2,091	2,190
Coaling Station.	61	764	845
Hotel Washington.	5	96	101
			l
Grand total.	4,050	18,253	22,303

The total gold force at work on Septen ber 24, was 51 more than the 3,999 at work on August 20, and the silver force was 374 more than the 17,879 then at work. As compared with the gold force for the corresponding month of last year, reported as of September 18, 1918, the gold force was an increase of 1,085 over the 2,965 at work on that date, and the silver force an increase of 2,056 over the 16,197 of that day.

The occupation of quarters on September 30, was as follows:

Occupants.	Men.	Women.	Children.	Total.
Americans. Europeans. West Indians.	3,425 181 5,329	2,146 41 2,01 1	2,606 56 3,747	8,178 278 11,087
Total	8,936	4,198	6,409	19,543

PUBLIC HEALTH.

One hundred and twelve cases of malaria were reported during the month of September, as compared with 202 cases during the month of August. One death occurred from malaria. Influenza admissions numbered 17, as compared with 20 during the preceding month. There were no deaths from influenza. There were 15 admissions and 2 deaths from pneumonia, as compared with 11 admissions and 5 deaths during the preceding month. Typhoid fever caused 5 admissions, 3 of whom were nonresidents; 1 a nonresident, white American, died. Five cases of small-pox were admitted. There were no deaths from smallpox.

RECEIPTS AND SALES OF MATERIAL AND SUPPLIES.

The value of material received during the month on United States requisitions was \$499,551.88, as compared with \$525,760.57 in August. Of that received in September, \$457,892.14 was chargeable to operation and maintenance; \$19,570.27 to construction and equipment; and \$22,089.47 to miscellaneous departments. Isthmian cash sales from storehouses and obsolete store amounted to \$36,914.77 of which \$35,972.59 was for stock, \$484.33 for scrap, and \$457.84 for obsolete and second-hand material. The more important sales made in the United States were as follows: One thousand two hundred tons of No. 2 heavy melting steel, \$24,000; 212 net tons No. 1 wheels, cast iron, \$5,568; 1,021 net tons steel plate, \$20,981.58; one 24-horsepower engine, gasoline, and equipment, \$600; and 27,115 pounds of scrap copper screening and wire, \$4,947.76.

The total sales of material from storehouses to steamships for the month including fuel oil, but excluding sales by the Commissary Division, amounting to \$135,708.17 were \$19,788.01. Sales of commissary supplies to all purchasers for the month aggregated \$967,582.40, made up as follows: To steamships, other than United States naval vessels and those of the Parama Railroad Steamship Line, \$87,055.23; to The

Panama Canal, \$115,092.22; to the United States Government, including sales to the Army and Navy, \$179,866.56; to individuals and companies, principally through charge accounts in the retail stores, \$16,568.34; to the Panama Railroad including its steamships and the Hotel Washington, \$43,383.65; and to individuals purchasing with coupons, \$525,616.40.

FINANCIAL RECEIPTS AND EXPENDITURES.

The cash balance in Canal appropriations on September 30, exclusive of fortifications, was \$15,453,896.17; the balance in fortifications was \$7,773,889.30. Payments from appropriations by Lisbursing Clerk in Washington, amounted to \$510,016.25 and by the Paymaster on the Isthmus to \$1,705,118.19. Purchases of commissary books from the Panama Railroad Company amounted to \$340,853.50. Collections of tolls totaled \$588,993.99. Deposits of \$235,705.43 were made with the Assistant Treasurer of the United States to be applied on payment of tolls and other charges against vessels using the Canal. The total Panama Canal collections on the Isthmus were \$1,981,092.45, and collections by the Disbursing Clerk, Washington, \$398,483.89. Receipts from the Canal Zone and miscellaneous funds were \$155,910.59, and disbursements from the same source amounted to \$130,618.30. September payrolls on the Isthmus aggregated \$1,203,824.84, as compared with \$1,222,868.69 for August, a difference of \$19,043.85.

Respectfully,

CHESTER HARDING, Governor.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Fort of Cristobal for Week Ending November 1, 1919.

				Car	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Huasco	United Fruit Company.		October 26	Tons.	Tons. 446
Mendocino	United States Shipping Board		October 26		(†)
Orca	Pacific Steam Navigation Co		October 26		(†)
Gen. G. W. Goethals.	Panama Railroad Steamship Line.		November 1	1,130	4,320
Ebro	Royal Mail Steam Packet Co	October 27	October 28	(*)	162
Acajutla	Pacific Steam Navigation Co	October 27	October 30	772	(†)
Antillian	Leyland Line.		October 29		804
Metapan	United Fruit Company		October 30	201	8
Turrialba	United Fruit Company		October 30	11	11
Cauca	Pacific Steam Navigation Co United States Shipping Board		October 30		709
Middlebury	Panama Railread Commissary	October 29.	October 30		(†)
Imperial	United Fruit Company			400 1,539	
Zacapa	United Fruit Company	October 30	October 31	1,009	18
Balboa	Colombian Maritime Co		October bi	572	10
Salvador	Pacific Steam Navigation Co			758	
Ulysses	Panama Railroad Steamship Line.			12,194	
Laura C. Hall	Pacific Metals Corporation	October 31		38	
Urubamba	Peruvian Line		November 1		489
San Mateo		November 1			(†)
Perou	French Line				
Ucayali	Peruvian Line			1,643	
Chautauqua	United States Shipping Board	November 1		2.696	

^{*} No cargo discharged.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending November 1, 1919.

				Cargo—	
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
				Tons.	Tona.
Coalinga	Union Oil Company	October 25	October 26	1,263	1,286
Point Bonita	Pacific Mail Steamship Co	October 26	October 27	30	7
Acajutla	Pacific Steam Navigation Co	October 26	October 26	5	
Cauca	Pacific Steam Navigation Co	October 30	October 30		1
Salvador	Pacific Steam Navigation Co	October 30	October 30	188	
Laura C. Hall	Pacific Metals Corporation	October 30	October 31	5	
Baldbutte	United States Shipping Board	October 30	November 1	8,571	
City of Para	Pacific Mail Steamship Co	October 31	October 31	2	
Melville	United States Navv	August 16	October 20		*37

^{*} Left out of report of October 25.

[†]No cargo laded.

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight, November 1, 1919.

THROUGH THE CANAL-ATLANTIC TO PACIFIC.

nama Canal tonnage	Net	2. 895 1. 993 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	4,542
Panama Canal tonnage	Gross	2, 630 2, 895 1, 993 5, 512 5, 514 5,	6,318
	Tons	2,630 2,2481 2,2481 1,082 489	6,045
	Cargo	Steel and general 2,630 2,395 1,993 Petroleum 5,531 7,020 5,542 Ceneral 2,238,15,93 10,486 General 2,228 15,91 10,486 General 2,228 15,91 10,000 Curde oil 8,500 6,914 5,013 Ballast 1,682 1,282 1,000 General 1,682 5,018 3,215 General 489 5,018 3,215	Coal and gen 6,045 6,318 4,542
	4Ov	San Francisco Taltal Valparaiso Coroned San Francisco Tabiti Tabiti San Francisco Balbo Balbo Parta Gnayaquil Callao	Callao
	rom +	Baltimore Puerto Lobos. Cristobal. Liverpool. Norfolk. New York. Tampico. Cristobal	420.5 54.3 23.5 Newport News, Callao
Salt	water	44.0 17.1 1.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	23.5
	Beam	44.0 4.5.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4	54.3
	Length Beam	289.0 3379.0 169.0	420.5
	Line	United States Shipping Board W. Will.climen. Stanking Hough American's waship line. For the Steam Navization Co. United States Navy. Vegetable Oil Corporation. Pacific Steam Navization Co. United States Army. United States Army. United States Army. Pacific Steam Navization Co. Pacific Steam Navization Co. Pacific Steam Navization Co. United States Navy. Perific Steam Navization Co. United States Navy. Perific Steam Navization Co. United States Navy. Perific States Navy.	Monarch Steamship Line
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	Day	26 28 28 28 30 30 28 28 28 28 29 111–1 31 111–2 111–2	1-1
Completed	TuoH	14.116.13 15.13 15.03 15.03 15.03 16.00 16.48 17.46 17.46 17.56 11.56 11.56 11.56 11.56	19.08
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Entered	Day	26 26 26 26 27 28 28 28 28 30 30 30 31 11-1	1
Arrived t port	TuoH	14 41 1 4 4 1 1 6 4 6 4 6 4 6 6 4 6 6 4 6 6 4 6 6 4 6	9 47
Arri at 1	Day	252 272 272 273 273 273 273 273 273 273 27	=
	Ship	Point Bonita. San Joaquin. Hussco. Orea. Sonoma (a) (b). Parks (c). Ebro. Barks (c). Ebro. Badebute. Acajuda. Caleveland.	

(a) Tug. (b) Towing Target No. 44. (c) Motor Schooner. (d) Transport.

THROUGH THE CANAL-PACIFIC TO ATLANTIC.

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		New York Cristobal		New Orleans Porto Lobos Cristobal	Cristobal Bilbao Philadelphia Habana
Seattle Melington Buenaventura.	Aberdeen	Guayacan Buenaventura. Taleahuano	San Francisco.	Vavau Tampieo	Balboa. Iquique. Valparaiso Aberdeen
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402.5 401.0 460.7 190.0	266.9	81.0 81.0 461.6	320.0	150.0 415.9 374.7	377.1 386.8 266.8
United States Shipping Board Holland-American Line. New Zealand Shipping Co. Colomibar Maritime Co.	United States Shipping Board Pacific Steam Navigation Co.	Pacific Metals Corporation. Allied Governments.	Patific Mail Steamship Line.	L. A. Scott United States Shipping Board Peravian Line	United States Army. Chilean Government. United States Shipping Board
American Dutch British American	American British	Clear lend .		American Peruvian	05 11-1 15.45 American 4511-1 20.20 Chilean 1611-121 45 11-2 12 00 American 4311-122.45 11-2 3.10 American
20. 14 22. 22 6. 40	09 31 5 00 11111-3 9.51	02 11-4 6.32 55 11-1 11 47	31 10.87 11-1 1.59 31 10.8011-1.3.35	11-1 (3.57 (1-113.57 (11-113.57 (2 :2 00 2 3 :10
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Chepados Sloterdijk. Orawa Balbos	Hyannis. Salvador.	Laura C. Hall.	Delisle.	Ballbutte Ucayali Gen. W. M.	Graham (f). Angamos. Osakis. Fassett

(e) Sailing. (f) Mine Planter. (g) Coffee, hides, ivory nuts, rubber. (h) Platinum, gold, rubber, hides. (i) Copper, cotton, sugar, hides, etc. (j) 1,109,149 feet. Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

PORT OF CRISTOBAL.

	For	New Orleans. New Orleans and way ports Galveston. New York via Pt. Limon New York via wayports New York via
*DEPARTURES	Line	Antillian Leyland Steamship Line Metapar United Fruit Company Volles Tarrialba United States Shinping Board. United States Shinping Board. United Fruit Company Gen. G. W. Goethals. Panama Railroad Steamship Line.
	Vessels	Antillian Metapan Nobles Turnaba Zacapa Gen. G. W. Goethals.
	Date	Oct. 29 Oct. 30 Oct. 30 Oct. 31 Nov. 1
	From	, d .
*ARRIVALS	Line	Panama Railroad Steamslip Line. New York and Haidi. United Pruit Company. New York via Habana United Pruit Company. New York via Kingsto Panama Railroad Steamslip Line. Nortolk. San Mateo S. S. Company. New York via Nortolk. French Steamslip Line. Havre and wayports.
	Vessels	Gen. G. W. Goethals. Metapan. Middlebury. Turralla. Zacapa. Llysses. San Mateo.

PORT OF BALBOA.

Terr	*ARRIVALS	ier	
		Terrier	The state of the s

*Other than ships passing through the Canal

Longest Ship through the Canal.

The United States Army transport Mount Vernon, passing through the Canal on October 28 en route from New York to San Francisco, completing the Canal transit in 8 hours 18 minutes, is the longest, though not the largest ship to have used the Canal to date. length between perpendiculars is 685 feet 4 inches, and length over all 712 feet. The previous record for length was held by the steamship Ceramic, which passed through the Canal from Pacific to Atlantic on December 12, 1917, and which is 655 feet 1 inch in length between perpendiculars, 680 feet over all. The Mount Vernon drew 33 feet 6 inches of water at the time of transit, exceeding by 10 inches the draft of the dreadnaught Mississippi, which is 624 feet in length and which transited the Canal on July 25 and 26, 1919. In beam and gross and net tonnage, the Mount Vernon is exceeded by the steamship Minnesota, which is 645 feet over all, and which transited the Canal from Pacific to Atlantic on February 27, 1917.

Data on the 6 largest ships which have used the Canal are summarized herewith:

Vessel.	Length between perpen- diculars.	Beam.	Draft at time of tran- sit.	Registered gross tonnage.	Panama Canal net tonnage.	Date of transit.	Direction.
Ceramic Minnesota Mississippi	655′ 1′′ 622′ 600′	69′ 4″′ 73′ 5″′ 97′ 4½″′	29' 8'' 28' 0'' 32' 8''	18,481 20,602 32,000	13,607 15,777	December 12, 1917 February 27, 1917 July 26, 1919	Pacific to Atlantic. Pacific to Atlantic. Atlantic to Pacific.
Mount Vernon New Mexico	685' 4'' 600'	72' 2'' 97' 4½''' 66' 3''	33'6" 32'11" 29'10"	Displacement 18,372 32,000 Displacement 14,908		October 29, 1919 July 25, 1919	Atlantic to Pacific. Atlantic to Pacific. Atlantic to Pacific.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulleties giving details of the examinations for positions for which there are likely to be a number of qualified persons on the 1sthmus are posted at Canal post offices and clubbouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights, telephone 286:

Assistant in cotton grading (male); \$1,200 to \$2,000 a year; No. 497; November 23, 1919; form 1312; age, at least 21 but not 35 years.

Plasterer (male); \$75 a month; No. 511; November 25, 1919; form 1800; age, at least 20 years.*

Typewriter repairman (male); \$900 to \$1,520 a year; No. 512; November 25, 1919; form 304; age, at least 18 years.

Lockmaker (male); \$4.50 per diem; No. 513; November 25, 1919; form 1800; age, at least 20 vears.

Artist (male and female); previously announced, closed October 14, 1919; and no further applications General mechanic (male); range of entrance salaries has been changed from \$720 to \$960 to \$720 to

and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

Local Civil Service Examinations.

The following examinations for The Panama Canal Service will be held at Balboa Heights, C. Z., on the dates set opposite the titles thereof:

\$1.000.

Clerk, December 21, 1919. Postal clerk, December 14, 1919. Stenographer and typist, December 14, 1919.

Stenographer and typist, December 14, 1919.

The usual entrance salaries are: Clerk, \$106 a month; postal clerk, \$100 to \$125 a month; stenographer and typist, \$137 for males and \$116 for females.

Full information in regard to the scope and the character of the examinations is contained in pamphlet, form 1424, "Information for Applicants for Stenographer and Typewriter Examination", a copy of which may be obtained from the Secretary, Board of Civil Service Examiners, Administration Building, Balboa Heights, C. Z. Applicants for the clerk examination must take at least one ootional subject in addition to the regular basis subjects. The optional subjects are: First, typewriting; second, bookkeeping; third, general business training and experience; fourth, time-keeping training and experience. If the third optional is taken, three letters of recommendation from former employers should accompany the application. from former employers should accompany the application.

Applicants for the examination for postal clerk must show that they have had at least one year's experience as clerk in the United States or Canal Zone post offices or as postmaster or as Navy mail experience as clerk in the United States or Canal Zone post offices or as postmaster or as Navy mail clerk, and they are familiar with the receipt, distribution, and dispatch of mail matter, the issuance of money orders, registration of mail and the preparation of various reports required of postmasters. Application form No. 1312 must be filled out, including the medical certificate but excluding the county officer's certificate, and should be filed promptly with the Board of Civil Examiners at Balboa Heights, C. Z. Applicants must have reached their twentieth but not their forty-fifth birthday on the date of the examination, must be citizens of the United States, physically sound and in good health. Applicants must submit to the examiner on the day of the examination their photographs taken within two years, securely pasted in the place provided on the admission cards sent them after their applications are filed.

applications are filed.

Applications are fined.

Applicants for the clerk examination in answer to question No. 1 and on the outside of the form should state the optional subject taken in addition to the name of the examination required. In answer to question No. 4, applicant must show residence in some State or territory of the United States from the time of taking up residence therein to December, 1919, on account of temporary employment on the Canal Zone and their retention of legal residence in the United States.

must be shown as to the county.

This examination is scheduled on the dates shown especially to provide for the examination of This examination is scheduled on the dates snown especially to provide for the examination of soldiers, sailors, marines, field clerks, and enlisted Army and Navy nurses who were unable to compete after April 6, 1917, and who are allowed 60 days from August 1, 1919, to do so, if they have been discharged prior to that date. Those discharged later will be allowed 60 days after discharge to compete; but, owing to our distance from the United States and the delay in receiving questions, all such persons should compete if possible on the date above mentioned.

These examinations will also be open to any other applicants desiring to be examined for the Panama

Canal Service.

Canal Service.

In addition to the examinations listed above, examinations for Stenographer, Typist and Stenographer-Typist in the Departmental Service in Washington, or elsewhere, will be held at Balboa Heights, C. Z. on December 7, 1919. These examinations are substantially the same as those for like positions with the Panama Canal Service, except that the minimum age limit is lower, namely 18 years. The entrance salary for typist is usually \$1,100 and that for stenographer \$1,200, in the United States, but for employment in civilian positions with the U. S. Army on the Isthmus, the same salary for typist is usually \$1,300 and that for stenographer \$1,200, in the United States, but for employment in civilian positions with the U. S. Army on the Isthmus, the same salaries may be paid as in the Panama Canal Service.

Partial Eclipse of Sun on November 22.

An annular eclipse of the sun on November 22, 1919, visible on the Isthmus, is announced by the Nautical Almanac, published by the United States Naval Observatory. The charts indicate that it will be visible on the Isthmus between 6 and 8 o'clock in the morning.

Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Abraham Casio (Cassis). Raphael Lopez. Juan B. Segura Uriah Allen. Edward Stokes. Charles Rose. Gerard (Gerald) Despoint. Fred Fray James Jordan. Arthur Lynch. Rubin Mannin. David Richards. Richard Roberts. Robert Clarke. Cruz Mereado.	53216 179801 46075 182673 51859 2405 26925 28140 25600 37012 24546 30972 22854 76388 40806	Jamaica Colombia Panama Jamaica Jamaica American St. Lucia Jamaica Barbados Colombia Trinidad Jamaica Jamaica Jamaica Barbados Colombia Colombia	Colon Colon Catun. Camp Bierd. Camp Bierd. Balboa. Colon Brazos Brook Panama Gamboa Colon Colon Panama Colon Camp Bierd.	R. & F. Agent. R. & F. Agent. Mun. Eng. Div. R. & F. Agent. R. & F. Agent. R. & F. Agent. Mun. Eng. Div. Building Division. Mun. Eng. Div. Mechanical Div. Cattle Industry. Marine Division Building Division. Supply Department. R. & F. Agent. R. & F. Agent.	September 5, 1919. October 16, 1919. October 12, 1919. October 14, 1919. October 14, 1919. October 13, 1919. October 14, 1919. October 1919.

Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

Mail for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

Official Circulars.

Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT, BALBOA HEIGHTS, C. Z., October 27, 1919.

CIRCULAR No. 218:

Effective October 22, 1919, Mr. S. W. Heald is designated an accountable official of the Pan-ama Railroad and Panama Canal, wice Mr. W. F. Foster, and as such will account for all non-expendable property in use by the Panama Railroad and Panama Canal rolling stock

H. A. A. SMITH, Auditor, The Panama Canal.

Approved: CHESTER HARDING, Governor.

Employees Returning on Transport.

THE PANAMA CANAL, EXECUTIVE OFFICE.

BALBOA MEIGHTS, C. Z., October 30, 1919.

To al! concerned-Advice has been received by To all concerned—Advice has been received by cable that employees whose leave expired up to and including October 25, and who were booked to sail on steamers Allianca and Colon, have been transferred to transport Princess Mateika, sailing from New York November 1.

The message states that families not traveling with employees returning from leave could not be accommodated on the transport.

C. A. McIlvaine, Executive Secretary.

Rates of Pay and Commutation of Subsistence for Employees of Corozal Hospital.

THE FANAMA CANAL, EXECUTIVE OFFICE,

Balboa Heights, C. Z., October 29, 1919.

To all concerned—The Governor has approved an additional monthly rate of \$31.50 for foremen, messengers, dairy men, clerks, etc., employees

of Corozal Hospital.

This rate will be considered as amending paragraph 23 of Circular No. 625-6 dated October 24, 1918; making the scnedule for monthly men as

given therein, as follows: \$16.50, \$21.50, \$24.00, \$26.5°, \$27.50, \$29.00, \$31.5°, \$36.50, and \$41.50. The last rate is for clerks only.

C. A. McIlvaine, Executive Secretary.

Approved: H. A. A. Smith, Auditor.

Tug "De Lesseps."

THE PANAMA CANAL, SUPPLY DEPARTMENT,

BALBOA HEIGHTS, C. Z., October 31, 1919. HEADS OF DEPARTMENTS AND DIVISIONS:

The Dredging Division advises that as far as they are concerned, the tug De Lesseps can be released for sale. Before efforts are made toward disposing of this tug by sale to private concerns, it is desired to ascertain definitely whether or not the same can be used by any of the depart-ments or divisions of The Panama Canal.

This tug is tied up at Gamboa and a brief description of her is as follows: She is rated as a second-class, iron hull, single-screw towboat; length 67'6", beam 15', depth 9'; tonnage, 75. Oil is used as fuel and she has a capacity of 65 barrels; equipped with a generator for electric lights; built in France in 1885; boiler in O. K. condition and has a working pressure of 110 pounds; machinery in good condition and hull in fair condition.

Will you please advise as soon as possible

whether or not you are interested in this tug?

R. K. Morris, Chief Quartermaster.

Cable Notice.

PANAMA RAILROAD COMPANY, OFFICE OF MASTER OF TRANSPORTATION, BALBOA HEIGHTS, C. Z., October 27, 1919. CIRCULAR No. 1413:

CIRCULAR No. 1413:

Agents and operators—The following information received from the Central and South American Telegraph and Cable Company:

"Naval Communication service advise effective October 20, 1919, will accept at Guantanamo messages for following points in Republic of Hayti: Anseaveay, Aquin, Caphaitien, Cayes Fortliberte, Conaivos, Jacmel Jeremie Miragmanf, Petit Geave, Port de Paix, St. Marc. Port au Prince, charge beyond Guantanamo for this traffic is 25 cents per word. Effective same date messages will be accepted for all points in Dominican Republic, charges beyond Guantano being Republic, charges beyond Guantanamo being 22 cents per word."

"Western Union advise urgent messages may now be accepted at triple rate beyond London for Denmark, Norway, Sweden, Ice-land, and Faroe Islands."

W. J. BISSELL, Acting Master of Transportation.

Labor Train Changes, Atlantic End.

PANAMA RAILROAD COMPANY, Office of Master of Transportation, Balboa Heights, C. Z., October 30, 1919. CIRCULAR No. 1415:

To all concerned—Effective Saturday, November 1, the Coco Solo-Fort Randolph labor train will be discontinued.

Effective same date, evening Gatun labor train will discontinue running down to Broadway and will go to 3d street, using same route and making same stops formerly made by the Ceco Solo-Fort Randolph labor train.

W. J. BISSELL, Acting Master of Transportation.

Sale of Glass Carboys.

Sealed bids will be received in the office of the Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10 a. m., December 1, 1919, and then opened, for the purchase of 140 five-gallon and 33 ten-gallon glass carboys. Bids will be considered on all or any number of these carboys. Bids must be accompanied by post office in oney order or certified check in an amount not less than 10 per cent of the amount bid. Carboys will be shown to prospective purchasers, but the General Stockheeper at Balboa, any weekby the General Storekeeper at Balboa, any week-day between the hours of 8 a. m. and 11 a. m. and 12 noon and 4 p. m. The Panama Canal reserves the right to reject any or all bids.

COMMISSARY NOTE.

Books.

Books received:

"Tarzan and the Jewels of Opar," by Edgar Rice Burroughs; "The Haunted Bookshop," by Christopher Morley; "My Lady Nicotine," "Tommy and Grizel," "The Little White Bird," "When A Man's Single." "A Window in Thrums," "Sentimental Tommy," "Peter and Wendy," "The Little Minister," "Half Hours," "Auld Licht Idyls," all by J. M. Barrie.

THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address
The Panama Canal Record, Balboa Heights, Canal Zone, or
The Panama Canal, Washington, D. C.
Entered as second-class matter, February 6, 1918, at the Post Office
at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII. Balboa Heights, C. Z., November 12, 1919. No. 13.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending November 8, 1919.

Middlebury. Panama Railroad Commissary. November 2. Tons. Ton Chantau qua United States Shipping Board November 3 (‡ Imperial South American Streamship Line. November 3 (‡ Imperial South American Streamship Line. November 3 (‡ Imperial South American Streamship Line. November 3 († Imperial South American Streamship Line. November 4 (‡ Imperial South American Streamship Line. November 4 († Imperial South American Streamship Line. November 5 († Imperial South American Streamship Line. November 5 († Imperial South American South American Streamship Line. November 7 († Imperial South American Streamship Line. November 7 († Imperial South American Streamship Line. November 7 († Imperial South American Streamship Line. November 8 († Imperial South American Streamship Line. November 8 († Imperial South American Streamship Line. November 4 († Imperial South American Streamship Line. November 5 († Imperial Streamship Line. Nov					Car	go—
Middlebury Panama Railroad Commissarv. November 2. Chautau United States Shipping Board November 3 (1 Imperial South American Steamship Line. November 3 November 3 Salvador Pacife Steam Navigation Co November 3 November 3 November 3 November 4 (1 Imperial November 4 November 4 (1 Imperial November 5 November 6 November 7 November 6 November 7 November 6 November 7 November 7 November 8	Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Middlebury. Panama Railroad Commissary. November 7 November 8 450 (‡. Santa Marta United Fruit Company. November 7 (*)	Chautauqua Imperial Salvador Laura C. Hall Ulysses Perou Oranie Nassau Heredia Balboa Santa Leonora Ueayali Jamaica Botsford Peru Palena Manavi Middlebury Santa Marta Siam Salta Marta Siam Salvador Sal	United States Shipping Board South American Steamship Line. Pacific Steam Navigation Co. Pacific Metals Corporation Panama Railroad Steamship Line. French Line. Royal Dutch W. I. Mail Co. United Fruit Company. Colombian Maritime Co. United States Government. Peruvian Steamship Line. Pacific Steam Navigation Co. United States Shipping Board Pacific Steam Navigation Co. South American S eam bip Line. Pacific Steam Navigation Co. Pacific Steam Navigation Co. South American S eam bip Line. Pacific Steam Navigation Co. Land Commissary. United Fruit Company Lanish East Asiatic Steamship Co.	November 3. November 3. November 3. November 4. November 4. November 5. November 7. November 7. November 7.	November 3. November 3. November 3. November 4. November 5. November 5. November 7. November 7. November 8. November 8. November 8. November 8. November 8. November 7.	217 †150 661 693 2,700 2,039 1,453 765 450 (*)	(‡) 440

^{*} No eargo discharged.

† Pounds.

I No cargo laded.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending November 8, 1919.

				Cargo-			
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.		
Sierra Anyo Maru Jamaica	Pacific Metals Corporation. Pacific Steam Navigation Co. United States Shipping Board Toyo Kisen Kaisha. Pa ific Steam Navigation Co. Peruvian Steamship Line	November 5 November 5 November 5	November 8 November 8	58 3,473 1,015	Tons. 75 7 26 25 54		

New Coaling Record Established.

Coaling at the Canal plant at Cristobal on November 10, steamship *Port Milburn* received $904\frac{3}{4}$ tons coal in 2 hours and 5 minutes. This is a record at the plant for this quantity of coal.

Refunds of Tolls.

Tolls were refunded October 31, 1919, by The Panama Canal for overcharges against ships passing through the Canal, as follows:

"Name of ship.	Date of transit.	Original tolls charged.	Corrected charge.	Amount refunded.	Payment made to—
Columbia Columbia St. Helens St. Helens Talawa Canora Total	May 1, 1915 May 26, 1915 September 11, 1915 November 9, 1918	1,642.50 980.00 930.00	1,547.50 860.00 860.00 3,253.75 1,257.50	95.00 120.00 70.00 612.50 1,022.02	W. R. Grace & Co. W. R. Grace & Co. W. R. Grace & Co. W. R. Grace & Co. Payne & Wardlaw. Canadian Northern R. R. Co.

Surges and Currents in the Cut.

Studies of the currents and surges set up in Gaillard Cut and parts of Gatun Lake adjacent to the north end of the Cut by drawing water from the Cut to fill the chambers at Pedro Miguel Lock, have been made by the Section of Hydrography and Meteorology. With respect to the effect on navigation it has been determined that:

The currents that accompany these surges are generally too feeble seriously to hinder navigation. The currents toward Pedro Miguel are much stronger than the return currents toward Gamboa. Only the former need be considered as constituting a possible danger to navigation. Vessels are required to navigate the Gaillard Cut section of the Canal at slow speed (not over 6 knots). With the precautionary measures that are taken and moderate currents experienced, no serious accidents to navigation have occurred in Gaillard Cut, and but few minor accidents.

In the case of a restriction of a cross-section, as for instance by a wrecked hull or a slide, the current and wave effects would assume values that would make rapid filling of Pedro Miguel Lock unsafe for navigation in the Cut. That is, either no water should be drawn during the passage of ships in the Cut, or the culvert valves should be only

partly opened so as to draw water slowly.

These surges have a maximum range in height from trough to crest of nearly three feet, i. e., the highest crest levels are nearly 1.5 feet above mean lake level and the lowest troughs are about the same distance below the average level of the lake. These changes in the surface level of the lake due to surges may affect navigation when the lake is down to its minimum operating level by reducing the navigable depth of water in the Canal approximately 1.5 feet at the trough phase of the surge. When the lake stands at or near its maximum operating level there would be a tendency for the water to spill over the lock gates into the lock chambers and machinery pits at the crest phase of the surge. This tendency is not important as the gates and masonry walls at the upper end of Pedro Miguel Locks were built higher than the maximum operating level to prevent spilling over.

DESCRIPTION OF SURGES.

The surges have been recorded on hydrographs at Pedro Miguel, adjoining the upper entrance to the east chamber; at Gamboa, at the opposite end of the Cut; at Juan Mina, $4\frac{1}{2}$ miles up the valley of the Chagres, at approximately right angles to the axis of the Cut; and at Gatuncillo, 3 miles beyond Juan Mina, and near the head of backwater on the river. They have also been noticed as far as 6 miles beyond Gamboa, along the axis of the Canal. In a series of observations it was found that the surge traveled from Gamboa up the Chagres River arm of the lake in opposition to an inflow of water approximating 1,260 c. f. s. A considerable freshet, however, on the river will wipe out the surges on the Chagres arm of Gatun Lake.

The Cut, ending in Pedro Miguel Lock, is 6.97 nautical miles, or slightly over 8 statute miles, in length. The immersed portion of the Cut prism is theoretically 300 feet wide by 45 feet deep at lake elevation 85 feet, a cross-sectional area of 14,500 square feet. Due to removal of slides there are many places which have a greater cross-sectional area than this. To cut down current velocity in the neighborhood of the lock the Canal was excavated 600 feet wide, tapering

to 300 feet at a point 4,300 feet from the lock.

A filling of a complete chamber with Lakes Miraflores and Gatun, at elevations of 54 feet and 85 feet, respectively, requires about 3,800,000 cubic feet of water in a lockage. The wall culverts have minimum clear openings of 255 square feet. If both a side and center wall culvert are opened a lock chamber is filled in $7\frac{1}{2}$ minutes. If a side culvert only is used, $13\frac{1}{2}$ minutes are necessary. Thus there are about 8,440 and 4,690 c. f. s., respectively, being drawn, according to whether 2 or 1

culvert is drawing water. If both chambers are receiving water simultaneously, with all 3 culverts open, there are $7\frac{1}{2}$ minutes in which water will be drawn at the rate of 13,130 c. f. s. This is the maximum case; and while such operation does not often occur, it would theoretically give a uniform velocity of about 1 f. s. or nearly 0.6 knot an hour in the Cut during a draft of water. This flow is not uniform.

Surges from lockages—When the valves are opened the Canal basin above the locks rapidly falls in elevation (sometimes as much as 1.5 feet, according to the number of valves open). The inertia of rest of the Canal water plus the friction from the sides and bottom of the Canal, prevents an immediate response to the tendency for a flow of

water to set up toward the lock.

When the valves are closed and the effect of the difference in elevations overcomes the tendency for a retardation of flow in the Cut, an acceleration sets up, which results in a surge or over-travel, the crest of which is as much above the original lake level as the depression was below. Equalization of levels is finally reached after a series of wave amplitudes, with decreasing intensities, unless their movement is complicated by another lockage.

A study of the hydrographs shows that from crest to trough the oscillations at all stations are about 45 minutes apart. Examination of many such hydrographs have shown this definite period occurs daily. During the six lockages of August 3, 1919, the average period of time between the same phase of the surges at each station was as

(a) Effect of opening valves at Pedro Miguel Lock appears on the Gamboa hydrograph in 18 minutes; at Juan Mina, in 60 minutes; at Gatuncillo in 78 minutes.
(b) The effect of closing valves at Pedro Miguel Lock appears at Gamboa in 19

minutes; at Juan Mina, 60 minutes; at Gatuncillo, 82 minutes.

The peak of the return surge after the closing of the valves is observed at Gam-25 minutes after it appeared at Pedro Miguel; at Juan Mina in 65 minutes; and 87 minutes afterward at Gatuncillo.

When the crest phase of a wave is at Pedro Miguel a trough phase is approximately at Juan Mina, and vice versa. The relative heights of successive waves at the various stations vary somewhat, but the wave at Gamboa averages about \frac{1}{8} the height of the wave at Pedro Miguel. Wave heights at Juan Mina are about the same as those at Gamboa, while at Gatuncillo at the head of the Chagres River arm of Gatun Lake, the wave heights are approximately 50 per cent greater than at Gamboa or Juan Mina.

Scope of Investigations of Marine Accidents by Board of Local Inspectors.

The Board of Local Inspectors of The Panama Canal, at a meeting on October 29, adopted the following definitive ruling with respect to the investigation of accidents:

The Board of Local Inspectors shall investigate:

1. All accidents resulting in loss of life or equipment.

2. All accidents in which Canal craft and the craft or property of private or commercial interests are involved.

3. All accidents in which the craft or property of more than one Panama Canal department (or Panama Railroad) is involved.

4. All other accidents which in the opinion of the division head are serious enough

to justify action by the Board.

Where disciplinary action to a licensed officer is decided upon as the result of an independent investigation by a division head, the same shall be passed upon by the Board of Local Inspectors where the action recommended will result in the institution of official action toward the suspension or revocation of an officer's license.

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight, November 8, 1919.

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	i	Cargo	Sulphur Petroleum General	General		Steel plates Naval stores Coal	General Cement	General	San Diego. San Francisco. General.
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		From	Sabine Tampico Cristobal	Cristobal	Puerto Cortez.	New York New York Norfolk	Sunderland	Cristobal	Kingston
	Salt	water	26.0 29.0 15.7	9.6	12.6	19.8 23.0 29.0	13.3	17.6	15.0
PACIFIC	-	Beam	55.3 55.0 53.5 55.0	25.0	31.0	60.2 65.0 2	34.0	43.0	30.0
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(a) Subebaser. (b) Destroyer. (c) Transport. (d) Collier.

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(e) Towing Admiral's barge and motor sailer.

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PORT	

	For	Cartagena. Bluefelds. Norfolk. Puerto Colombia. Puerto Colombia. New Orleans and wayport New Orleans via San Juaz Port Limon. Cartagena. Cartagena.
*DEFARTORES	Line	Panama Railroad Commissary Cartagena. United States Shinping Board Panama Railroad Steamship Linc Proach Line Royal Dutch West India Mail Co Plurico Colombia United States Army United States Army United States Army Colombian Martime Company Colombian Martime Company Cartagena Cartagena Cartagena Cartagena Cartagena Cartagena
	Vessels	Middlebury Chattauqua Ulyases Perou Oranje Nassau Heredia Santa Lonora Santa Marta Middlebury
	Date	Nov. 2 Nov. 3 Nov. 5 Nov. 6 Nov. 7 Nov. 7 Nov. 8 Nov. 8
		ia
	From	Norfolk. New Orleans. New Orleans. Port Limon. Norfolk. Cartagena. New York and Haban New York.
*ARRIVALS	Line	United States Shipping Board, Norfolk. United States Army New Orleans. United States Army New Orleans. New Orleans. Norfolk. United States Shipping Board, Norfolk. Panama Railroad Commissary, Cartagena. United Fruit Company, New York and Haban United States Army.
*ARRIVALS		Nov. 1 Chautauqua. United States Shipping Board. Norfolk. Nov. 3 Santa Leonora. United States Army New Orleans. Nov. 3 Herenia. Chited Print Company. New Orleans. Nov. 3 Herenia. Royal Dutch West India Mail Co. Port Lianon. Nov. 4 Bostsford. Norfolk. Nov. 7 Natidelboury. Cartagena. Nov. 7 Santa Maria. United Fruit Company. Nov. 7 Santa Maria. United States Army. Nov. 8 Princess Matoika. United States Army.

PORT OF BALBOA.

		*ARRIVALS				*DEPARTURES	
Nov. 5	Sierra M. S. Anyo Maru	Nov. 5 Sierra M. S. P. K. Wood Lumber Co. Toyo 5 Anyo Maru. Toyo Kisen Kaisha.	Portland. Hongkong.	Nov. 4 Nov. 8	Nov. 4. Anton (f)	Weir & Stone	Panama. Valparais
*Other	ther than ships passing through the Canal	<i>D</i>	Launch.				

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Local Civil Service Examinations.

The following examinations for The Panama Canal Service will be held at Balboa Heights, C. Z., on the dates set opposite the titles thereof:

Clerk, December 21, 1919.

Clerk, December 14, 1919.

Stenographer and typist, December 14, 1919.

The usual entrance salaries are: Clerk, \$106 a month; postal clerk, \$100 to \$125 a month: stenographer and typist, \$137 for males and \$116 for females.

pher and typist, \$137 for males and \$116 for females.

Full information in regard to the scope and the character of the examinations is contained in pam phlet, form 1424. "Information for Applicants for Stenographer and Typewriter Examination", a copy of which may be obtained from the Secretary, Board of Civil Service Examiners, Administration Building, Balboa Heights, C. Z. Applicants for the clerk examination must take at least one optional subject in addition to the regular basis subjects. The optional subjects are: First typewriting; second, bookkeeping; third, general business training and experience; fourth, time-keeping training and experience. If the third optional is taken, three letters of recommendation from former employers should accompany the application

Applicants for the examination for postal clerk must show that they have had at least one year's experience as clerk in the United States or Canal Zone post offices or as postmaster or as Navy mail clerk, and they are familiar with the receipt, distribution, and dispatch of mail matter, the issuance of money orders, registration of mail and the preparation of various reports required of postmasters.

Application form No. 1312 must be filled out, including the medical certificate but excluding the county officer's certificate, and should be filed promptly with the Board of Civil Examiners at Balboa Heights, C. Z.

Heights, C. Z.

Applicants must have reached their twentieth but not their forty-fifth birthday on the date of the examination, must be citizens of the United States, physically sound and in good health.

Applicants must submit to the examiner on the day of the examination their photographs taken

Applicants must submit to the examiner on the day of the examination their photographs taken within two years, securely pasted in the place provided on the admission cards sent them after their applications are filed.

Applicants for the clerk examination in answer to question No. 1 and on the outside of the form should state the optional subject taken in addition to the name of the examination required.

In answer to question No. 4, applicant must show residence in some State or territory of the United States from the time of taking up residence therein to December, 1919, on account of temporary employment on the Canal Zone and their retention of legal residence in the United States. The same must be shown as to the county.

ployment on the Canal Zone and their fetention of legal residence in the Officer States. The same must be shown as to the county.

This examination is scheduled on the dates shown especially to provide for the examination of soldiers, sailors, marines, field clerks, and enlisted Army and Navy nurses who were unable to compete after April 6, 1917, and who are allowed 60 days from August 1, 1919, to do so, if they have been discharged prior to that date. Those discharged later will be allowed 60 days after discharge to compete; but, owing to our distance from the United States and the delay in receiving questions, all such persons should compete if possible on the date above mentioned.

These examinations will also be open to any other applicants desiring to be examined for the Panama Canal Service.

Canal Service.

In addition to the examinations listed above, examinations for Stenographer, Typist and Stenographer-Typist in the Departmental Service in Washington, or elsewhere, will be held at Balboa Heights, C. Z. on December 7, 1919. These examinations are substantially the same as those for like positions with the Panama Canal Service, except that the minimum age limit is lower, namely 18 years. The entrance salary for typist is usually \$1,100 and that for stenographer \$1,200, in the United States, but for employment in civilian positions with the U. S. Army on the Isthmus. the same salaries may be paid as in the Panama Canal Service.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286). Age limits do not apply to persons entitled to preference because of military or naval service:

Accountant (male and female); Grade 2, \$3,600 to \$4,500 a year, and Grade 1, \$3,000 to \$3,600 a year; No. 532; form 1312; age, no limits,†
Transitman (male); \$900 to \$1,200 a year; No. 525; form 1312; age, at least 20 years.†
Veterinarian (male); \$1,500 to \$1,620 a year; No. 514; form 1312; December 14, 1919; age, at least

Veterinarian (male); \$1,500 to \$1,620 a year; No. 514; form 1312; December 14, 1919; age, at least 21 years but not 45 years.

Lay inspector (male); Grade 1, \$1,080 a year; No. 514; December 14, 1919; form 304; age, at least 18 but not 45 years.

Superintendent of transportation (Ordnance Department at Large) (male); \$1,800 to \$2,400 a year; No. 518; form 1312; age at least 25 years; November 25, 1919.*

Assistant engineer (furnace design); armor, guns, and projectile plant (male); \$11.20 per diem; No. 520; November 25, 1919; form 1312; age, under 45 years.*

Assistant special agent, social hygiene (female); \$600 to \$1,500 a year; No. 529; December 9, 1919; form 1312; age, at least 21 years.*

Physical laboratory helper (male); \$600 to \$000 a year; No. 64-amended; November 23, December 14, 1919, and January 11, 1920; form 1320; age, at least 16 years.

Apprentice fish culturist (male); \$600 to \$900 a year; No. 61-amended; November 23, December 14, 1919, and January 11, 1920; form 1312; age, at least 18 years but under 45 years.

Mechanician qualified as mechanical store and tool room keeper (male); \$720 to \$1,000 a year; No. 515; November 23, 1919; form 304; age, at least 18 years.

Senior structural engineer, Grade (male); \$3,000 to \$4,000 a year; No. 504; form 1312; age, under 60 years.†

Senior structural engineer, Grade 2 (male); \$1,800 to \$2,700 a year; No. 504; form 1312; age, under

60 years.† Senior mechanical engineer, Grade 2 (male); \$1,800 to \$2,700 a year; No. 504; form 1312; age. under 60 years.†

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Superintendent of gas works (male); \$1,500 a year; No. 533; December 9, 1919; form 1312; age, at least 25 years.*
Cotton classer's helper (male); \$900 to \$1,440 a year; No. 524; December 14, 1919; form 1312; age,

at least 16 years but not 25 years

Histo-pathologic technician (male); \$1,200 to \$1,500 a year; No. 528; December 2, 1919; form 2118; age, at least 21 years but not 45 years or over.*

Assistant instructor, Motor Transport Training School (male); \$1,800 to \$2,400 a year; No. 359-amended; form 2118;† The following come under the above-mentioned title: Assistant instructor for automobile machinists, assistant instructor for automobile mechanics, assistant instructor in ignition and carburetion, assistant instructor in battery repair and rebuilding, assistant instructor for chaufteurs, assistant instructor in welding, assistant instructor in tire repairing and wheel building, assistant instrucassistant instructor in welding, assistant instructor in tire repairing and wheel building, assistant instructor in blacksmithing and spring making, assistant instructor in sheet-metal working and radiator repairing, assistant instructor in carpentry and woodworking, assistant instructor in painting, assistant instructor in warehousing spare parts and issue, assistant instructor in engineering drawing, assistant instructor in applied structural engineering.

Assistant observer, Weather Burcau (male); \$1,080 a year; No. 361-amended; December 14, 1919; form 304; age, at least 18 years but under 35 years.

Fire chief, Ordnance Department at Large (male); \$1,800 a year; No. 519; November 25, 1919; form 1800; age, at least 25 years but under 50 years.*

Assistant for fishery food laboratory (male); \$2,000 to \$2,400 a year; December 23, 1919; age, no limits *

limits.3 Clinical clerk (male); \$900 to \$1,200 a year; No. 542; December 14, 1919; form 1312; age, at least

Clinical clerk (male); \$900 to \$1,200 a year; No. 542; December 14, 1919; form 1312; age, at least 20 years but under 40 years.

Mineral geographic aid (male and female); \$1,200 to \$1,440 a year; and mineral geographer (male and female); \$1,500 to \$2,400 a year; No. 543; December 14 and 15, 1919; form 1312; age, at least 20 years but under 45 years.

Clerk qualified as planmacist (male and female); \$75 to \$125 a month; No. 545; December 14, 1919; form 1312; age, at least 21 years but under 45 years.

Inspector (mechanical); inspector (electrical); inspector (mechanical and electrical) (male); Grade 1, \$5.20 to \$6.40 per diem; Grade 2, \$6.80 to \$8.80 per diem; No. 546; form 1312; age, at least 21 years; December 16, 1919.*

Master machinist arms prepring projectiles; master machinist, supplying to fainch, master machinist.

Master machinist, armor piercing projectiles; master machinist, guns up to 6-inch; master machinist, guns above 6-inch (male); \$12.49 per diem; No. 536; form 1371; age, no limits.*

Mechanical assistant in refrigeration (male); \$1,200 to \$1,400 a year; No. 534; December 9, 1919 form 1312; age, at least 21 years but not 35 years.*

Structural steel draftsman and designer (male); \$2,400 a year; No. 539; December 9, 1919; form 1312; age, at least 26 years but under 45 years.*

Foreman open hearth and electric furnace department (male); \$10 to \$12.56 per diem; No. 535;

Foreman open hearth and electric furnace department (male); \$10 to \$12.56 per diem; No. 535; form 1371; age, no limits; December 9.*

Special assistant, legal unit (male); Grade 1, \$1,800 to \$2,250 a year; Grade 2, \$2,250 to \$2,750 a year; Grade 3, \$2,750 to \$3,500 a year; No. 537; December 16, 1919; form 2118; age, at least 25 years but under 45 years.*

The papers of applicants that are received in complete form prior to the hour of closing business on November 25, 1919, will be rated immediately, and eligibles resulting therefrom will be certified for filling vacancies existing at that time. Papers of applicants that are received in complete form after November 25, but prior to the lour of closing business on December 16, 1919, will be rated after December 16, and eligibles will be certified for any remaining or future vacancies.

Local and assistant inspector of boilers (male); \$2,100 to \$2,950; range of salary has been changed from \$2,100 to \$2,950;

from \$2,100 to \$2,500.

I.ocal and assistant inspector of hulls (male); \$2,100 to \$2,950; range of salary has been changed from \$2,100 to \$2,500.

Blue printer (male and female); the United States Civil Service Commission calls attention to the above continuous nonassembled examination. There are vacancies at \$3.20 per diem and \$770 a year.

†Nonassembled. Applications will be received at any time until further notice

Thanksgiving at Taboga.

The Hotel Aspinwall is making preparations for the entertainment of a large crowd on Thanksgiving Day and the night preceding. An old-home dinner, featuring turkey, cranberry sauce, and pumpkin pie, will be served at noon on Thanksgiving Day. There will be no change

The following are the current rates at the Aspinwall:

Employees: Dinner, lodging, and breakfast	\$2.00
Employees	2.75
Children under 12 years of ageper day	1.25
Servants of employees	1.50
Employees for stay of 7 daysper day	2.00
Reduction of 10 per cent on above rates for stay of 30 days. Reduction of	
10 per cent for families of four or more for over 7 days' stay.	
Nonemployees	3.50
Children of nonemployees (under 12 years of age)per day	1.50
Servants of nonemployeesper day	1.75
Meals:	
Breakfast	1.00
Luncheon	1.25

^{*}Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on

Las Cascadas to be a Settlement of Silver Employees.

The village of Las Cascadas and the buildings of the former Army post of Camp Otis are to be devoted to a village for silver employees of the Canal and Panama Railroad, in connection with which adjacent areas of land may be cultivated. A committee has been appointed to draw up provisions for policing, sanitation, assignment of quarters, use of land, etc.

Certain of the buildings will be removed for the use of other departments of the Canal and of the Army. These include the old engine shed, one third of which will be used in connection with the pastures, and two-thirds moved to Pedro Miguel for a playshed; the police station, to be moved to Gamboa; 10 type 7 one-family quarters, to be held for further disposition; 9 type-15 cottages, to be moved to Pedro Miguel; and 3 type-18 bachelor quarters, to be moved to Balboa.

Weather Conditions in October, 1919.

The monthly rainfall was above normal at 12 stations and below at 8 stations, the deficiency occurring mainly over the upper Chagres valley. Totals ranged from 10.21 inches at the Culebra station on the Pequeñi River, to 23.22 i iches at Catun River. The greatest rainfall on any one day was 4.04 inches, at Juan Mina on the 10th.

The estimated rainfall over Gatun lake watershed was 14.79 inches, compared with

a 9-year mean of 15.43 inches, and over the Chagres River basin above Alhajuela it was 13.92 inches, compared with an 18-year mean of 14.57 inches.

The air temperature, daytime cloudiness, and temperature of the sea water were generally above normal, while the atmospheric pressure, relative humidity, and evaporation were generally below normal. The wind movement was slightly above normal everywhere except on the Pacific Coast.

Numerous fogs occurred at interior stations, most of which were light and had

lifted or were dissipated by 8 a. m.

A light earthquake shock was felt on the 9th and slight tremors were recorded on

the 26th.

Gatun Lake hydrology.—Mean elevation of Gatun Lake was 86.03 feet above sealevel; maximum, 86.40 feet, on the 25th, minimum, 85.47 feet on the 1st; evaporation from Gatun Lake surface, 3.726 inches; rainfall on Gatun Lake drainage basin, 14.79 inches; total yield of Gatun Lake watershed, 9.20 inches on watershed; the total vield amounted to 62 per cent of the rainfall.

The following table gives a summary of the weather conditions for the month:

	70			Temperat	ure.		1	1	Prec	ipitatio	n.	1		Wine	d.	
Stations.	Pressure (reduced to mean of 24 hours).	Mean.	Maximum.	Date.	Minimum.	Date.	Mean relative	humidi	Total inches.	Station aver- age.	Days with .01 inch or more.	Total move- ment (miles).	Prevailing direction.	Maximum velocity in miles.	Direction.	Date.
Balboa Heights Colon	29.830 29.826		90 90		70 71	Oct.	6 8 8	7.1 1.4	12.11 21.94	10.33 15.03		4,516 5,822		31 30	S. W.	Oct. 24 Oct. 22
Gamboa Gatun		$\frac{79.2}{80.0}$	90 90	Oct. 16*	69 70	Oct.	6		11.72 17.46	12.76	27	3,036 4,563	N.E.	20	N. E. S.	Oct. 12 Oct. 18

^{*} And other dates.

Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Samuel Hinds Juan Cavallero				Panama Railroad Panama Railroad	

Official Circulars.

Restrictions on Hunting.

THE PANAMA CANAL, EXECUTIVE OFFICE.

BALBOA HEIGHTS, C. Z., November 6, 1919. To all concerned-All previous circulars in regard to Canal Zone areas in which hunting is prohibited are hereby modified to the extent that hunting will be permitted with shotguns in all areas with the exception of watersheds. The provisions of exist-ing circulars still hold good, however, in so far as hunting with rifles is concerned.

CHESTER HARDING, Governor.

Fence on West Side of Pedro Miguel Lock.

THE PANAMA CANAL,

EXECUTIVE OFFICE. BALBOA HEIGHTS, C. Z., November 7, 1919.

To all concerned-The attention of this office has To all concerned—The attention of this office has been called to the fact that the fence constructed on the west side of Pedro Miguel Lock, to keep cattle, horses, etc., away from the backfill, has been repeatedly cut and portions thereof destroyed, presumably by equestrians en route across the locks. There is a gate in this fence at the lower end of the locks, opposite the guard gates, and all persons are instructed to use this gate and to backfill by cutting the wires of this fence. In-fractions of these instructions will result in disciplinary action.

CHESTER HARDING, Governor.

Office Equipment.

THE PANAMA CANAL, EXECUTIVE OFFICE.

BALBOA FIEIGHTS, C. Z., November 6, 1919. To all concerned-The following items of office equipment, which are not in stock, are required, and it is requested that you advise the Chief, Property Bureau, at once if you have any of the

items listed which are surplus and available for transfer. Also please advise if you have any other items of office equipment which are surplus. Cabinets, filing, vertical, 3 and 4 drawers. Cabinets, card index, 5" x 8", 4" x 6", and 3"

x 5" Cases, book. Chairs, office, arm. Chairs, office, revolving. Chairs, typewriter. Desks, double and single. Safes, office, large. Safes, office, small. Tables, office.

Tables, typewriter.

C. A. MCILVAINE, Executive Secretary.

Approximate Sailings of Panama Railroad Vessels.

PANAMA RAILROAD COMPANY,

OFFICE OF SUPERINTENDENT, BALBOA HEIGHTS, C. Z., November 7, 1919.

To all concerned—The New York office advises that the longshoremen's strike has now been terminated, and that the Panama Railroad ships

terminated, and that the Panama Railroad ships will be dispatched as follows:
Steamship Gen. O. H. Ernst, November 8.
Steamship Allianca, November 10.
Steamship Colon, November 13.
Steamship Gen. V. C. Gorgas, November 20.
If the passenger ships mentioned will sail as above indicated, the following will be the approximated.

above indicated, the following will be the approximate sailings from the Isthmus:

Steamship Allianca, Saturday, November 22. Steamship Colon, Thursday, November 27. Steamship Gen. W. C. Gorgas, Thursday, December 4.

Steamship Ancon, Sunday, December 7. We shall advise later if there is any change in

the sailing dates mentioned. S. W. HEALD, Superintendent.

Prices of Scrap.

THE PANAMA CANAL SUPPLY DEPARTMENT,

BALBOA HEIGHTS, C. Z., November 1, 1919 HEADS OF DEPARTMENTS AND DIVISIONS:

Effective November 15, 1919, the following prices will be allowed by the Supply Department for scrap turned in by the various departments and divisions of The Panama Canal. There are also shown the selling prices to departments and divisions, employees, individuals, and companies:

	Selling	prices.
Credit to be allowed divisions.	To Depts. of Panama Canal.	To employees and
Net ton. \$7.00 7.00	Net ton. \$7.50 7.50	Net ton. (†) \$30.00
5.00 7.00 20.00 Cwt.	7.50 7.50 20.00 Cwt.	20.00 30.00 (†) Cwt.
\$5.00 10.00 9.00	\$9.00 11.00 10.00	\$20.00 25.00 15.00
7.00 3.00 3.00	9.00 4.00 4.00	15.00 6.00 6.00 6.00
2.00 2.00 2.00	3.00 3.00 3.00	6.00 5.00 6.00 5.60
	Net ton. \$7.00 7.00 7.00 20.00 0.00 10.00 9.00 7.00 3.00 3.00 2.00 2.00 2.00	Credit to be allowed divisions. To Depts. of Panama Canal. Net ton. \$7.00 7.50 7.50 7.50 7.50 Cout. \$8.00 \$9.00 \$10.00 \$10

*Without surcharge. †None to be sold.

R. K. Morris, Chief Quartermaster.

Misdirected Letters.

Balboa Heights, C. Z., November 10, 1919. The following insufficiently addressed mail has been received in the office of the Director of Posts, and may be obtained upon request of the addressee. Request may be made by telephone, calling No. 182, Balboa:

Backus, Mrs. W. C., Box Haferman, Wm. & Co.

581

Hilbert, John Logan, Jon. Box 139
Mangnall, John N.
Mitchell, Euphemia D.,
Box 463 Barnes, Charles Loring Bray, Alonzo Bryan, Mrs. Sarah

Bryan, Mrs. Sarah Edwards, Marguerite R. Box 463 Garlow, Mrs. William, Scdeno, Manuel Berro-cal, Box 138 Sterling, Miss Ada May

Additions to Commissary Stock.

Boots and Shoes Section.

Women's kid Oxfords, turn sole, pr...... \$7 Women's pat. pumps, mock turn welt, pr. 7 Dry Goods Section. Rompers and creepers, children's, ea..... 1.20 .89 Rompers and creepers, children's, ea..... Rompers and creepers, children's, ea..... .89 Rompers and creepers, children's, ea..... Rompers and creepers, children's, ea..... .89 Soap, bath, Peroxide, cake..... .15 Stationery: Books, memo, black leather, ea...... Books, memo, black leather, ea..... .59 Cards, birth announcement, box..... .20 .20 Cards, birth announcement, box..... .20 Cards, birth announcement, box..... Cards, birth announcement, box......
Cards, birth announcement, box......
Cards, birth announcement, box..... .40 Cards, birth announcement, ea..... Leads, H. B., for Eversharp pencils, tube ,01

Leads, F., for Eversharp pencils, tube ...

.20

-20

COMMISSARY NOTES.

Ladies' Blouses.

A good selection of georgette and crepe de chine blouses, in white and flesh color, in assorted sizes, at \$6.20 and \$7.45, will be placed on sale in the commissaries next week. They are of good quality material and stylish design.

Japanese Goods.

A shipment of Japanese goods consisting of ivory beads; pongee embroidered silk-lined parasols, in various colors and designs; Jap Hauutai silk in white and pink; pink and blue silk handbags; handbags in printed cotton; brocade, silk-lined, novelty bags; and bags in tapestry effect, has recently been received and will be placed on sale next Monday.

Madeira Linens.

Tea cloths, ranging in prices from \$8.80 to \$17.90; night dress cases, from \$3.85 to \$5.65; doilies, from 34 cents for the small to \$3.10 for the large size; tray cloths from \$1.70 to \$4.70; and Dutchess dresser sets from \$5.05 to \$8, comprise a shipment of Madeira hand-embroidered linens in exquisite designs recently received by the Commissary Division. These will be placed on sale in the commissaries on November 17 and will make most desirable Christmas gifts.

Handbags.

To early shoppers in search of desirable gifts for Christmas, the information that the Commissary Division has recently received a selection of ladies' handbags in a variety of styles and prices, will be of interest. Among the many good values are bags of velvet, lincd with silk and fitted with mirror and change purse, in plum, brown, blue, and black, at \$7.35; other velvet handbags, at \$4.70 and \$5.05; silk handbags in taupe, blue, brown, and black, with the usual fittings, at \$3.35, black silk handbags with silver frames, at \$3.35; and blue, black, tan, and gray handbags in silk with combinations of beads, at \$4.35. A small shipment of misses' handbags in moire silk at \$2.20 and \$2.35, were also received. With others now on hand, all reasonably priced, the commissaries offer an unusual and fashionable array. The new numbers will go on sale Monday, November 17.

Fountain Pens.

A leading brand of fountain pen, which has been in large request in the commissaries, has recently been added to stock. Three types are carried, the regular and the self-filler style at \$2 each, and safety at \$2.40.

Lace.

A recent shipment of real linen union laces received from England has been placed on sale at Ancon, Balboa, Cristobal, Pedro Miguel, and Gatun commissaries. These comprise a wide range of patterns and widths and the prices at which they are offered are considerably below to-day's purchase prices.

Ladies' and Children's Wear Scarcity.

Children's white lawn dresses and flesh colored and white organdie shirt waists, which have been on requisition for some time, are not available, according to advices recently received from the commissary purchasing agent, and these items, therefore, have been carceled.

Scarfs and Ties for Men.

According to items appearing in recent issues of trade publications, the demand for men's silk knitted scarfs has exceeded all previous records and they seem to be meeting with great popularity all over the United States. Not only are they favored because of the new and attractive color combinations and weaves, but also on account of the fact that they possess greater durability than the ordinary silk scarf.

The Commissary Division has recently added to stock men's silk knit four-in-hand

The Commissary Division has recently added to stock men's silk knit four-in-hand ties, in assorted colors, r anging in prices from \$1.40 to \$2.85 each, which it is believed

will be equally popular on the Isthmus.

THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL,

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address The Panama Canal Record, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C. Entered as second-class matter, February 6, 1918, at the Post Office at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII. Balboa Heights, C. Z., November 19, 1919.

No. 14.

Navassa Island.

The Hydrographic Office has published the following general information about Navassa Island, which lies in the course of vessels plying through the Windward Passage on the way to or from the Canal (including normally those to or from Atlantic ports of North America north of Savannah):

Settlement—The phosphate company no longer operates on the island and its entire personnel has been removed. The buildings shown on chart near Lulu Bay are standing but unoccupied and out of repair. The only residents of the island are the light keepers and radio operators who live in the immediate vicinity of the lighthouse. A narrow-gauge track extends from Lulu Bay to the lighthouse. Cars are hauled up the steep incline by winch and cable operated by gasoline engine.

Lulu Bay-There are no mooring buoys or wharves. In good weather a small vessel can moor bow and stern to the cliffs on each side of the bay, or she may anchor in the bay and warp her stern into the cliffs where steel cables for holding on have been secured. A steam crane and a hand crane are installed on the cliff landing to hoist supplies ashore.

Communication—There is a United States naval radio station located here. A naval vessel from the Guantanamo naval station visits the island about once every three months carrying supplies to the light keepers and radio men."

The characteristics of the light established on Navassa Island were published in THE PANAMA CANAL RECORD of December 12, 1917.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending November 15, 1919.

				Cargo—	
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Palena. Ansaldo San Giorgio II Manavi Santa Marta Atenas Levisa. Parismina. Botsford Princess Matoika* Carrillo Middlebury. P. de Satrustigui. Aeajutla. Cauca. Bologna.	South American Line. National Navigation Society. Pacific Steam Navigation Co. United Fruit Company. United Fruit Company. United Fruit Company. United States Shipping Board. United States Shipping Board. United States Army. United States Army. Yanama Railroad Commissary. Spanish Steamslip Co. Pacific Steam Navigation Co. Pacific Steam Navigation Co. Italian Steamship Co.	November 10. November 10. November 10. November 10. November 10. November 13. November 13. November 13. November 13. November 14.	November 10. November 10. November 10. November 11. November 12. November 14. November 14. November 15. November 15.	93 684 864 †730 1,346 400 803	Tons. (‡) 23½ (‡) 180½ †125 5 (‡) 57 49 18 5 96

* Transport.

† Pounds.

‡ None laded.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending November 15, 1919.

			D	Cargo—	
Name of vessel.	Line or charterer.	Arrived.	Departed.	Disebarged	Laded.
Ansaldo San Giorgio I	National Navigation Society National Navigation Society Pacific Steam Navigation Co	November 13. November 14.	(*)	Tons. 7 4 2	Tons. (†) (†) (†)

In port.

† No cargo laded.

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight, November 15, 1919.

THROUGH THE CANAL-ATLANTIC TO PACIFIC,

namaCanal tonnage	Net	2,537 4,150 759 4,833 1,517	4,289 2,463 4,449 2,848	5,458	4,963	5,345	2,813 3,717	1,805 2,426 4,516	3,902
PanamaCana tonnage	Gross	3,639 5,842 1,241 6,572 2,383	5,886 3,459 6,186 3,811	7,235	6,592	8,620	3,854 5,255	2,852 3,347 6,210	5,610
Tons		2,792 2,792 1,935	3,814 7,160 4,200	9,000	7,154	1,180	6,192	4,000	
Cargo	b	General. General General. Coke.	General Coal Oiland steel rails Crude naphtha	Crude oil.	Coal	General mdse	Kerosene.	General Petroleum	
For		Valparaiso Valparaiso Guayaquil Mejillones	Valparaiso Callao Yokohama San Francisco.	Tocopilla	Aucktand Bremerton Callao	Chile	. 0 4021	San Francisco. Antofagasta Freemantle	Balboa Mejillones
From		Cristobal. New York. Cristobal. Barbados.	Genoa Newport News New York Tampico	Tuxpin	Norfolk New York	Liverpool	Cristobal Newport News New York	Darcelona. New York Bilbao Port Arthur	Cristobal New York Baltimore
Salt	lraft	24.6 24.0 12.0 17.0 23.6	26.6 23.0	27.0	24.8	0.4	3.6 12.6 26.0	25.1 25.1 25.9	14.6
Beam		42.0 51.6 35.1 52.0 43.5	47.5 46.8 52.0 46.2	57.0 54.0	54.0 19.0	56.3	9.6 48.0 51.0	43.6 47.1 55.0	52.0
Salt Seam Water	0	350.0 360.0 216.0 401.0 253.5	362.0 325.0 420.0 321.0	421.8	84.0 84.0	465.0	41.5 339.6 380.0	251.0 251.0 420.0	394.0
94.1		South American S. Line. W. R. Grace & Company. Pacific Steam Navization Co. Holland American Line. United States Shipping Board.	National Navigation Society. W. Wilhelmson. United States Steel Products Co. Standard Oil Company.	Martitude Onion of Dipaso	British India Steam Nav. Co United States Shipping Board Salaverry Agencies Company	Pacific Steam Navigation Co	E. II. Norton. S. M. Kubule and Son. Standard Transportation Co.	Cla. Anon de Nav. Izarra. United States Shipping Board. Hijos Astigarraga. British Admiralty.	United States Navy. W. R. Grace & Company. Oriental Navigation Co.
- Nationality		Chilean 25 Chilean 30 British 40 Dutch 32 American				41 British		35 Spanish 13 American 20 Spanish 32 British	
8 5 -	Пау	9 17.25 10 14 49 10 15.30 11 13.40 13 18.32	55555	12	2423	13 19.4	F43	5 18.1 15 18.1 15 19.3 19.3	-:#5
	moH	0883311	5,5,2,5,5	20100	8888	0.00	555	20.20	13.10
G 5 -	Day	01000		1222		1331		#### ####	
- 1	noH	6.00 6.00 6.15 7.20	11.11 7.10 6.25 6.55	6.28	8.000	10.54	6.20	12.36 12.58 15.41	7.20 6.15 8.24
Entere	Дзу	00000	2===	122	2222	322	2277	1777	722
t po	Hour	5 15.02 9 21.41 5 20.10 9 21.47 9 21.47	9 23 58 10 16 32 10 18 45 10 18 35 15 35	5 12 00	12 20.55 13 20.55 13 5.53	20.	13 21 42 13 20 44		14 18.00 15 8.03
4 "	Day	1	<u> </u>						
Ship		Palena Santa Ana Manavi Gorredijk Lake Maurepas	Ansaldo Dal Giorgio II Saint Andrews Saint Francis El Segundo	La Habra Bradford	Vest Aleta Nepen (a)	Oriana Or W Fields (A	Sylph II (c) Sverre Shabonee	Donostia Lake Faulk Bartolo Gilgai	S. C. 284. Cacique Huachuca.

(a) Tug. (b) U. S. S. Tug. (c) Launch.

Nov. 12..... Sierra (M.S.)...... E. K. Wood Lumber Co...... Iquique.

THROUGH THE CANAL-PACIFIC TO ATLANTIC.

5,414 3,900 1,546 9,503 5,342 7,008	2,261	3,789,	5,423			3,975	9,506
4, 185 7, 449 5, 700 3, 304 2, 465 2, 362 10 8, 236 12, 267 7, 488	4,709 3,482 731 1,196	5,370	6,000 7,560 7,000 7,826	6,673	7,468	5,694	12,792
2,465 8,236		6,000	6,000	5,770	1,133	4,262	7,183
Frozen, general General, fruit General, meat, etc Ballast.	Nitrates. Spelter, fir lumber	Fruit, salmon, etc	General Frozen, wool, etc.	Ballast	Frozen, general	Lumber	General
London Bergen Habana London Tampico	Las Pulmas	Liverpool	London	Beaumont	London	Queenstown	London
Wellington San Francisco. San Francisco. Sydney. Tocopilla Balboa.	Taltal Genoa Bay	Honolulu	Sydney. Dunedin	San Francisco.	Wellington	Vancouver	Auckland
24.0 24.6 20.0 28.0 17.0	22 0 15 0	25.2	25.1 24.5	17.2	25.6 16.0	25.11	27.6
51.2 43.6 65.8 65.8 65.8	40.5	200 E	54.1	48.2	35.2	46.9	63.3
425.1 364.0 253.5 501.3 435.3 514.0	331.0	385.0	426.0	420.5 382.0	425.7 246 0	279 0 360.5	500.3
Shaw Saville & Albion Co Avel Johnson Line United States Shipping Board Commonweath & Dominon Line C. T. Bowring & Company Panama Railroad Steamship Line	Felix de Abasolo French Government	Prentice Service & Hederson Pacific Steam Navigation Co	Commonwealth & Dominion Line Commonwealth & Dominion Line	Standard Transportation Co	Shaw Saville & Albion Co Pacific Steam Navigation Co	French Government	White Star Line
BritishSwedishAmerican.British.British.American.	Spanish	British	British.	British	British	French	British
13.38 14.32 16.21 19.25 18.06 18.26	12.09	10.26	12.40	15.41	22.4	14	18 03
25 10 25 10 35 11 25 11 35 11	0.00 12	32 15	27 14	48, 15	20 14	57 15	27 15
10 11 11 11 11 11 11 11 11 11 11 11 11 1	11 20	255	1202				
6.29 6.29 6.30 10.27 11.18	13.38	7.53	3.23	7.24	10.47	6.37	7.46
14.00 9 15.00 10 17.00 10 18.00 10 9.00 11	12.30 11 14.45 13	22.00 13 22.00 13	11.25 13	20.10 14	10.00 14	8.00 2.00 15.00 15.00	6.30
75 co co co co	==:		: :	: :	Z 2	7 5	
Kumara Lima (M. S.) Lake Sanford Port Melbourne Lompoc	Conde de Aba- solo	Crown of Cadiz	Port Lincoln.	Tamaha	Waiwera	Ottawa	Corinthic

Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

PORT OF CRISTOBAL.

	For	New York. N. Y. via Col. & Kingston. Now York. Cartagena. Now Urleans via wayports. Bluefields. New York and wayports. New York and san Juan. Cartagena. Puerto Colombia.		
*DEPARTURES	Line	United Fruit Company. United States Shipping Board. United State Shipping Board. United State Ammy. Intel State Shipping Shipping Fruit Company. United State Ammy.		*DEPARTURES
	Vessels	Santa Marta. Alemas. Crieket Lovisa. Parismina Barismina Botsford Carrillo Princes Matoka. Middlebury P. de Satrustegni.		
	Date	Nov. 10. Nov. 10. Nov. 11. Nov. 12. Nov. 13. Nov. 14. Nov. 14. Nov. 14. Nov. 15.	ORT OF BALBOA.	
		Kingston.	PORT OF	
	From	New York via New Orleans. Port Limon. Carlagena. Habana. Carlagena. Carlagena. New York via York via Carlagena.		
*ARHIVALS	Line From	United Fruit Company. United Fruit Company United Fruit Company United Fruit Company United Fruit Company Carlagena. Cricket Steamship Company Pagarish Steamship Line Panama Railroad Commissary United Fruit Company Carlagena. Panama Railroad Commissary United Fruit Company Carlagena.		*ARRIVALS
*ARRIVALS		y ary		*ARHIVALS

*Other than ships passing through the Canal.

Facilities for Repair of Vessels at the Panama Canal.

GENERAL.

The principal manufacturing and repair plant of The Panama Canal is located at Balboa, the Pacific terminal of the Canal. It is adjacent to an inner harbor, which has an area sufficient to permit access to docks, which aggregate 7,500 feet in length, including commercial docks, repair wharves, and coaling docks.

A much smaller plant is located at Cristobal, the Atlantic terminal,

about one and one-half miles from the main commercial docks.

THE BALBOA PLANT.

Dry dock and repair wharves—The dry dock is 1,000 feet long by 110 feet wide, with a depth of 35 feet over the blocks at mean tide. High tide varies from 3 to 11 feet above mean tide. The dock is served by a 50-ton traveling crane with an outside reach of 5 feet beyond the center line of the dock. This crane is also capable of traveling along the face of some of the repair wharves, thus facilitating the prosecution of repairs to vessels. At regular intervals along the coping of the dock are outlets for air, water, and electric service; either direct current or alternating current can be supplied, thus furnishing power for the auxiliary motors of ships in dry dock.

For ships which do not require dry docking, there are adjacent to

the shops approximately 3,500 feet of repair wharves.

Repair shops—The repair shops are centrally located with respect to the dry dock and repair wharves. Ample track and crane service pro-

vide for handling work between shops and ships.

The main metal working shops (machine, smithery, and boiler shop) are provided with 60-ton overhead traveling cranes, while the foundry has a 25-ton overhead crane. As all the shops are equipped with as complete a line of power tools as are generally found in an up-to-date repair shop, only the larger tools will be given special mention so as to give an idea of the maximum capacity of each department.

The machine shop is provided with a vertical boring mill capable of working 18 feet in diameter, with an open side extension planer 16 feet by 32 feet, and with a lathe 120-inch swing by 65 feet between

centers.

The smithery is provided with a 500-ton forging press with the necessary furnaces to handle any work that the press is capable of. The boiler and ship fitting shops have a set of rolls capable of bend-

ing plates \(\frac{3}{4}\) inch by \(\frac{30}{20}\) feet \(\frac{1}{20}\) inch by 24 feet, or 2 inches by 6 feet.

The pipe shop is outfitted for plumbing work and for pipe, copper,

The pipe shop is outfitted for plumbing work and for pipe, copper, and sheet metal work of the highest classes.

The foundry is equipped with a 2-ton tropenas converter and one 2-ton and one 1-ton cupola, and the usual brass furnaces. It can turn out castings as follows: Bronze brass or composition, \(\frac{1}{4}\) pound to 1,000 pounds; iron, \(\frac{1}{4}\) pound to 26,000 pounds; steel, \(\frac{1}{4}\) pound to 10,000

pounds.

The planing mill and joiner shop is outfitted with the usual woodworking machines, including a sawmill capable of handling timbers

likely to be used in connection with ship work.

The oxy-acetylene plant has portable electric-welding and oxy-acetylene cutting outfits capable of handling emergency repairs.

The plant develops approximately 400 cubic feet of acetylene per hour, 5,000 cubic feet of oxygen per day, and 10,000 cubic feet of hydrogen

per day.

The storehouses (under the control of the Supply Department) carry on hand a large stock of steel shapes, pipe, ship fittings, and supplies of every description. Steel plate is carried in stock in all thicknesses up to and including 2 inches. Plates smaller than $\frac{5}{8}$ -inch vary by sixteenths and plates larger than $\frac{5}{8}$ -inch vary by eighths. The largest plates in stock are 72 inches by 10 feet by 2 inches thick. A large amount of steel billets is kept on hand in all sizes up to and including 24 inches by 24 inches by 19 feet. Structural shapes are carried as follows: Eyebeams, all sizes up to 27 inches; channels, all sizes up to 15 inches; ship channels, all sizes up to 12 inches; and angles, all sizes up to 8 inches by 8 inches by $\frac{3}{4}$ -inch.

In addition to the crane service heretofore mentioned, the services of two floating cranes with a capacity of 250 tons each are available at

any time or place in the Canal or terminal harbors.

CRISTOBAL PLANT.

This plant has less capacity than the Balboa plant and is intended for repairs of less importance. The activities of these shops are confined to three buildings, of somewhat temporary construction; one of which houses the machine shop, smithery, pipe shop, and power plant; another the boiler and shipfitter's shop; and the third, the wood working shop. The tools are of less modern construction and of smaller capacity than those in use at the Balboa plant, few steps having been taken to modernize the plant pending more definite information as to exactly what the demands upon it will be. It is, however, capable of undertaking routine repairs to vessels; and, in emergencies, such parts as require larger tools than are available here can be shipped to Balboa to be machined.

There is available at this plant a small dry dock, originally constructed by the French and later extended by the Americans. This dock is now 300 feet in length, 50 feet in width, and has a depth over the blocks of 13 feet 6 inches at ordinary mean high tide. Adjacent to the shops and dry dock are approximately 2,000 feet of repair wharves.

WORKING FORCE.—COST OF REPAIRS.—DOCKING CHARGES.

Practically all skilled mechanics on the Isthmus come from the United States, the unskilled labor being performed almost exclusively by West Indians. About 775 skilled men and 1,427 silver employees are employed at Balboa Shops, and about 180 skilled and 460 silver men

at Cristobal shops.

The actual cost of repairs, as billed, compares favorably with that to be found in the United States. No contracts are made for work performed in the Canal shops. The charges are at actual shop costs plus a moderate percentage for general administrative expense and profit, and the total cost is believed to be less than in Asiatic or South American establishments, while in many cases it compares favorably with costs in the United States.

Charges for docking are in accordance with the following rates.

	Balboa.Ci	
Men-of-war. Per displacement ton for docking and undocking	\$0.25	\$0.15
For each lay day		. 10
Army and Navy transports, colliers, hospital ships, and supply ships, per gross ton,		
Panama Canal measurement:		
For docking and undocking	. 25	.15
For each lay day		10
		:

Merchant steamers. Per gross ton, Panama Canal measurement:	Balboa. Cr	ristobal.
For docking and undocking	\$0.25	\$0.15
For each lay day	.15	10
Merchant sailing vessels. Per net ton, Panama Canal measurement:		
For docking and undocking		.15
For each lay day		. 10
Minimum charge, when dock is pumped for exclusive benefit of one vessel and occu-		
pied by a single vessel:		
For docking and undocking		75.00
For lay days	120,00	45.00

Note—When a vessel whose tonnage is below the amount which at regular rates would equal the minimum rate above is docked at Cristobal with one or more other vessels, she will be charged \$60 for docking and undocking and \$30 for each lay day. When a vessel under the same conditions is docked at Balboa with one or more other vessels, or under other circumstances which involve no additional cost for pumping, a special rate will be charged dependent on circumstances but in no case less than the actual cost, exclusive of pumping, plus 10 per cent.

WORK PERFORMED.

As indicated by the facilities noted, the shops of the Canal are fitted to perform practically all classes of ship repair and construction, and are currently carrying on such work. The largest job performed by the shops has been the overhaul of five former German ships, brought to the Canal from Peru, where they had deteriorated considerably during internment and had suffered extensive damage at the hands of their crews. The extent and completion of this job have been noted in THE PANAMA CANAL RECORD. The aggregate gross tonnage of these ships was 32,831. The next largest job has been the remodelling of the steamship Cristobal of the Panama Railroad Steamship Line, with change from coal to oil burning and extension of passenger accommo-

dations, as well as the overhaul of hull and machinery.

During the fiscal year 1919, a coast guard cutter, the Manhattan, 120 feet 3 inches in length, over all, by 24 feet in molded breadth, was completed at Balboa shops, materials and machinery for the vessel having been sent from the United States. The Konigin der The Santa Isabel was Nederlanden was converted into a troopship. repaired after having been on a reef, and extensive changes to the propelling machinery were made. The Heina, which had been recovered after being ashore, was given a general overhauling, which included the renewal of several bottom plates, straightening other plates, and a thorough cleaning out of the condenser. Old boilers were removed and new boilers installed on the steamship Quoque. Three new furnaces were installed in the U.S.S. Yorktown. Extensive work was done on the motor schooners Elizabeth Ruth and Evelyn, including the gas engines. Fifty 1,800-pound cast steel anchors were made for the United States Navy.

At the Cristobal shops extensive repairs were made to the steamships Allianca, Balboa, Clairmont, Advance, and Colon and the dredges No. 83, and No. 86, in addition to many running repairs made on the

variety of ships calling at Cristobal.

Marine work amounted to 54.14 per cent of the work performed by Balboa shops during the last fiscal year. Work for the Panama Railroad was 26.56 per cent of the total, manufacturing work 10.50 per cent, and sundry work, 8.80 per cent. During the preceding fiscal year the percentages were: Marine, 46.12; Panama Railroad, 23.11; manufacturing, 16.19; miscellaneous, 14.58.

Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Caral Zone," or "The Panama Canal, Washington, D. C."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

Mail for ships passing through the C enal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

A Little Ship on a Long Voyage.

The British motor schooner *Percival S. Parks*, of 100 net tons, Panama Canal measurement, passed through the Canal on October 29 on the way from New York to Tahiti. The voyage is 6,503 miles—1,974 miles from New York to Cristobal, 43 miles through the Canal, 4,486 miles from Balboa to Tahiti. The *Percival S. Parks* is 96 feet in length by 25 feet beam and had a salt water draft of 12 feet 6 inches at the time of transit. She was carrying 208 tons of machinery and general cargo and paid tolls of \$125.

This ship saved 4,844 miles by using the Canal, or over twofifths of the 11,347 miles from New York to Tahiti via Rio de Janeiro, Montevideo, and the Strait of Magellan. The voyage by way of St. Vincent, the Cape of Good Hope, and Wellington would have been 15,744 miles, or by Gibraltar, Suez, Torres Strait, and Levuka

about 16,664 miles.

New Record for Tolls Collections.

A new high record for monthly collections of tolls on ships passing through the Canal was established in October, with the collection of \$661,307.74. The previous record was \$644,499.23, in May, 1918, and prior to that the record was \$606,316.56, for March, 1915. These three months are the only ones in which collections of tolls have exceeded \$600,000. In October, 1919, the tolls averaged \$3,356.89 per ship for the 196 ocean-going commercial vessels and 1 launch which made the transit. The average of ships per day was 6.35.

Revision of Telephone Directory.

The copy for a revised telephone directory, to be issued as of December 15, 1919, will go to the printer December 1. All changes or corrections in the present directory should be forwarded to the Supervisor of Telephones, Balboa Heights, not later than December 1, Proof corrections will be made to December 6.

Distribution of Victory Loan Notes.

The Liberty Loan Committee are now engaged in mailing the Victory Loan notes where the last payment on subscriptions have been

completed.

On account of the recent strike at New York and the consequent refusal of insurance companies to assume the risk involved in transportation, a part of the bonds have been delayed but are expected within the next few days.

Conversion of First and Second Issue Bonds.

Governor Harding has directed the committee to make some arrangement whereby employees can send their first and second issue Liberty Bonds to Washington for exchange or conversion. The last coupon on first issue bonds is payable on December 15. The last coupon on second issue bonds was payable on November 15 and before further interest can be collected it is necessary that the bonds be exchanged for those bearing the subsequent coupons or converted to registered bonds.

First and second issue bonds carrying all subsequent coupons will not be ready for issue by the United States Treasury before March, 1920. In the meantime the Liberty Loan Committee will make necessary arrangements for insurance and transportation of bonds which have

been subscribed for through the Panama Canal committee.

Canal Medal Holders' Memorial to Roosevelt.

A Canal Zone memorial to Theodore Roosevelt is being prepared by men and women who earned the Canal medal by two or more years of service on the Panama Canal during construction days, who are still on the Isthmus. It is to be in the form of a tablet, hand drawn on parchment of suitable design, framed in an especially designed frame of native wood, and to be presented to the family of Colonel Roosevelt. Under an appropriate inscription the tablet will bear the names of the medal holders who participate. Copies of the incompleted design, with some of the names on it, have been posted in Canal clubhouses and in the rotunda of the Administration Building, and employees who are qualified to take part whose names are not on the tablet, or are incorrectly spelled, are requested to forward their names to the Architect, Balboa Heights. Costs are being defrayed by payment of 10 cents by each participant.

Election of Officers of the Red Cross.

In an election held on October 29, the following were chosen as officers for the Canal Zone Chapter of the American Red Cross for the ensuing year: Chairman, Mr. S. W. Heald; vice-chairman, Mr. R. B. Walker; secretary, Mrs. Louise W. Fulton; treasurer, Mr. R. W. Glaw: executive committee, Mr. Harry Dockery, Mr. Roy R. Watson, Dr. C. A. Hearne, and Mr. R. T. Martin.

School for Employees Working at Night.

In connection with the night school being conducted at the Balboa High School, inquiry has been received from an employee working at night whether classes in mechanical drawing and shop mathematics can be given in the afternoon for employees who are unable to attend The Superintendent of Schools advises that this the night classes. can be arranged for Saturday afternoons, if enough employees wish to attend, and suggests that all who are interested communicate with the high school principal (telephone Balboa 48, postal address, Balboa: office, room 43, Balboa High School).

Local Civil Service Examinations.

The following examinations for The Panama Canal Service will be held at Balboa Heights, C. Z., on the dates set opposite the titles thereof:

Clerk, December 21, 1919.
Postal clerk, December 14, 1919.
Stenographer and typist, December 14, 1919.
The usual entrance salaries are: Clerk, \$106 a month; postal clerk, \$100 to \$125 a month; stenographer and typist, \$137 for males and \$116 for females.
Full information in regard to the scope and the character of the examinations is contained in pamphlet, form 1424. "Information for Applicants for Stenographer and Typewriter Examination" a copy of which may be obtained from the Secretary, Board of Civil Service Examiners. Administration Building, Balboa Heights, C. Z. Applicants for the clerk examination must take at least one optional subject in addition to the regular basis subjects. The optional subjects are First, typewriting; second, bookkeeping; third, general business training and experience; fourth, time-keeping training and experience. If the third optional is taken, three letters of recommendation from former employers should accompany the applicants for the examination for postal clerk must show that they have had at least one year's

Applicants for the examination for postal clerk must show that they have had at least one year's experience as clerk in the United States or Canal Zone post offices or as postmaster or as Navy mail clerk, and they are familiar with the receipt, distribution, and dispatch of mail matter, the issuance of money orders, registration of mail and the preparation of various reports required of postmasters Application form No. 1312 must be filled out, including the medical certificate but excluding the county officer's certificate, and should be filed promptly with the Board of Civil Examiners at Balboa Applicants must have reached their twentieth but excluding the county officer.

Applicants must have reached their twentieth but not their forty-fifth birthday on the date of the examination, must be citizens of the United States, physically sound and in good health. Applicants must submit to the examiner on the day of the examination their photographs taken within two years, securely pasted in the place provided on the admission cards sent them after their applications are filed.

Applicants for the clerk examination in answer to question No. 1 and on the outside of the form should state the optional subject taken in addition to the name of the examination required. In answer to question No. 4, applicant must show residence in some State or territory of the United States from the time of taking up residence therein to December, 1919, on account of temporary employment on the Canal Zone and their retention of legal residence in the United States. The same

ployment on the Canal Zone and their retention of legal residence in the United States. The same must be shown as to the county.

This examination is scheduled on the dates shown especially to provide for the examination of soldiers, sailors, marines, field clerks, and enlisted Army and Navy nurses who were unable to compete after April 6, 1917, and who are allowed 60 days from August 1, 1919, to do so, if they have been discharged prior to that date. Those discharged later will be allowed 60 days after discharge to compete; but, owing to our distance from the United States and the delay in receiving questions, all such persons should compete if possible on the date above mentioned.

These examinations will also be open to any other applicants desiring to be examined for the Panama

These examinations will also be open to any other applicants desiring to be examined for the Panama

In addition to the examinations listed above, examinations for Stenographer, Typist and Stenographer-Typist in the Departmental Service in Washington, or elsewhere, will be held at Balboa Heights, C. Z. on December 7, 1919. These examinations are substantially the same as those for like positions with the Panama Canal Service, except that the minimum age limit is lower, namely 18 years. The entrance salary for typist is usually \$1,100 and that for stenographer \$1,200, in the United States, but for employment in civilian positions with the U. S. Army on the Isthmus, the same salaries may be paid as in the Panama Canal Service.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286). Age limits do not apply to persons entitled to preference because of military or naval service.

preference because of military or naval service.

Airplane test pilot (male); \$3,000 a year; No. 559, December 16, 1919; form 1312; age, no limits.*

Assistant auditor (male and female); Grade I. \$1,400 to \$1,800 a year; Grade II. \$2,000 to \$2,500
a year; No. 492-amended; December 14, 1919; form 1312; age, at least 20 years. but under 45 years.

Electrical and mechanical engineer (male); \$14 per diem; No. 549; December 16, 1919; form 1312;
age, under 45 years.*

Fish pathologist (male); \$2,500 a year; No. 544; December 16, 1919; form 2118; age, at least 24
years but under 45 years.*

Laboratorian qualified in photography (male); \$4.80 per diem; No. 548; December 16, 1919; form
1312; age, at least 18 years but under 45 years.*

Mechanical aid (male); \$10 per diem; No. 547; December 16, 1919; form 1312; age, no limits.*

Meteorologist (male); Grade 1, \$1,600 to \$2,200 a year; grade 2, \$2,200 to \$3,000 a year; No. 553;
December 23, 1919; form 1312; age, no limits.*

Preparator in entomology (male and female); \$900 a year; No. 1, January 11 and 12, 1920, and
April 11 and 12, 1920; form 304; age, 18 years and over.

Resident dentist (male): \$2,000 to \$2,500 a year; No. 540; December 9, 1919; form 1312; age, at least 25 years but under 35 years.*

Town manager (male and female); \$2,400 a year; No. 571; December 16, 1919; form 1312; age,

Town manager (male and female); \$2,400 a year; No. 571; December 16, 1919; form 1312; age, at least 25 years.*

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

Deceased and Insane Employees.

The estates of the following deceased or insane employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any Information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

DECEASED.

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Alfonso Regist (Regis) Henry Bennett David Dixon Peter Modest John Marcelle Frank R. Jay Alexander Forth Reginald T. McCalla Alfred Bowra	1586 39177 28193	Jamaica. Jamaica. Jamaica. Bonaire, D.W.I U. S. A. Jamaica. Jamaica.	Colon Panama Colon Gatun Colon	R. & F. Agent	July 3, 1919. October 5, 1919. October 20, 1919. October 27, 1919. October 30, 1919. November 3, 1919. November 8, 1919. November 9, 1919. November 11, 1919.

INSANE.

Name.	Check No.	Native of-	Isthmian residence.	Employed by—	Date of commitment.
Solustiani Fernandez . John Sargent	39903 37557	Spain Barbados	Panama Colon	Building Division Cattle Industry	August 23, 1919. September 17, 1919.
Samuel McKinney (McKinley)	42040	Jamaica	Panama	Cattle Industry	October 8, 1919.

Rates at Hotel Aspinwall, Taboga.

The following are the current rates at the Aspinwall.

The following are the current faces at the Hispinwan.	
Employees: Dinner, lodging, and breakfast	\$2.00
Employees	2.75
Children under 12 years of ageper day	1.25
Servants of employeesper day	1.50
Employees for stay of 7 daysper day	2.00
Reduction of 10 per cent on above rates for stay of 30 days. Reduction of 10 per cent for families of four or more for over 7 days' stay.	
Nonemployees	3.50
Children of nonemployees (under 12 years of age)per day	1.50
Servants of nonemployeesper day	1.75
Meals:	
Breakfast	1.00
Luncheon	1.25
Dinner	1.25

Schedule of Official Jitney Service.

Following is the schedule of the official jitney plying between Balboa shops and the Ancon police station, carrying employees in the conduct of official business, upon presentation of passes issued by the Chief Quartermaster, or of the "special pass" issued by the Governor:

FROM ANCON POLICE STATION TO BALBOA SHOPS. Police Station..... Leave on the hour and half hour. Administration Building. Leave 7 minutes and 37 minutes after the hour.

Balboa Commissary	Leave 10 minutes and 40 minutes after the hour.
	Arrive 15 minutes and 45 minutes after the hour.
FROM BALBOA SHOPS	TO ANCON POLICE STATION.
Balboa Shops	Leave 15 minutes and 45 minutes after the hour.
	Leave 18 minutes and 45 minutes after the hour.
	Leave 20 minutes and 50 minutes after the hour.
Administration Building	Leave 25 minutes and 55 minutes after the hour.

Ancon Police Station Arrive on the hour and half hour.

Official Circulars.

Act of Congress .- Prohibition of Intoxicating Liquors in the Canal Zone.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., November 6, 1919. CIRCULAR No. 600-66:

The extracts from the Act of Congress quoted below are published for information of all conerned.

CHESTER HARDING, Governor.

AN ACT To prohibit intoxicating beverages, and to regulate the manufacture, production, use, and sale of high-proof spirits for other than beverage purposes, and to insure an ample supply of alcohol and promote its use in scientific research and in the develop-

nent of fuel, dye, and other lawful industries.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled. That the short title of this Act shall be the "National Prohibition Act."

TITLE III.

SEC. 20. That it shall be unlawful to import or SEC. 20. That it shall be unlawful to import or introduce into the Canal Zone, or to manufacture, sell, give away, dispose of, transport, or have in one's possession or under one's control within the Canal Zone, any alcoholic, fermented, brewed, distilled, vinous, malt, or spirituous liquors, except for sacramental, scientific, pharmaceutical, industrial, or medicinal purposes, under regulations to be made by the President, and any such liquors within the Canal Zone in violation hereof shall be forfeited to the United States and seized: Previded, That this section shall not apply to liquor in transit through the Panama Canal or on the Panama Railroad.

That each and every violation of any of the provisions of this section shall be punished by a fine of not more than \$1,000 or imprisonment not exceeding six months for a first offense, and by a fine not less than \$200 nor more than \$2,000 and imprisonment not less than one month nor more

than five years for a second or subsequent offense.
That all offenses heretofore committed within
the Canal Zone may be prosecuted and all
penalties therefor enforced in the same manner and to the same extent as if this Act had not been

passed.

SEC. 21. Titles I and III and sections 1, 27, 37, and 38 of Title II of this Act shall take effect and be in force from and after the passage and approval of the Act. The other sections of Title II shall take effect and be in force from and after the data when the alter hampendment of the the date when the eighteenth amendment of the Constitution of the United States goes into effect. Effective October 28, 1919.

Use of Roads in Ancon Hospital Grounds.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., November 13, 1919. CIRCULAR No. 717-2 (superseding Circular No.

 By virtue of authority contained in Executive Order of the President, dated September 5, 1916, Circular No. 601–55), Section 3 of which authorizes the Governor by public notice to prohibit motor vehicles of any or all kinds from operating on such portions of the roads in the Canal Zone on such portions of the roads in the Canal Zone as he may designate, when, in his judgment, the public interest requires it, or permit any of said vehicles to be operated in any areas or districts designated by him, upon such conditions as he may deem necessary and convenient for the welfare of The Panama Canal, the following order

is hereby established effective November 20, 1919:
2. The road through the Ancon Hospital grounds is hereby declared a one-way road, and no vehicles of any kind will be permitted to use this road in the direction from Panama to the top of the bill overent with a believe the control of the property of of the hill except such vehicles as it may be necessary to admit to the grounds on hospital business.

sary to admit to the grounds on hospital business.

3. Passenger automobiles will be permitted to pass through the Hospital grounds from the top of the hill toward Panama provided the engines are cut off and no unnecessary noise is made while passing through the grounds. Trucks, motorcycles, or horse-drawn vehicles will not be permitted to use the road in either direction unless they have business within the hospital grounds.

4. The entrance to the Hospital grounds will be indicated by suitable signs. The entrance from the Panama side is just beyond the steps leading to the Hospital Administration Building.

5. Violation of this order is punishable under the provisions of the Executive Order above referred to, and offenders are subject to arrest.

ferred to, and offenders are subject to arrest.

CHESTER HARDING, Governor.

Requests for Work.

THE PANAMA CANAL, EXECUTIVE OFFICE BALBOA HEIGHTS, C. Z., November 1, 1919.

CIRCULAR No. 642-2 (superseding Circulars Nos. 642 and 642-1):

642 and 642-1):
Requests for work to be performed, made between departments and divisions of The Panama Canal or between the Panama Canal and the Panama Railroad Company, covering manufacture, repairs, alterations, and special services which can not conveniently be executed by the department making request, or which are specific functions of the department on which the request is made, and for work to be performed by The Panama Canal and Panama Railroad for outside interests, will be governed by the following:

1. Work requests, made between departments and divisions or between The Panama Canal and Panama Railroad, will be submitted on Form 159, for authorization by the Governor, when the estimated cost exceeds \$500, except for maintenance and repair work as covered by paragraph

tenance and repair work as covered by paragraph
5. When the estimated cost is less than \$500, the
approval of the head of department or division

approval of the head of department of division only is required.

2. Work requests covering allotments from appropriations for special work will be submitted on Form 159, for the authorization of the Governor, when the estimated cost exceeds \$500. An allotment is not to be considered as authorized to the considered as authorized with west, well it has been approved. to proceed with work, until it has been approved

to proceed with work, until it has been approved on regular work request.

3. Work requests from outside interests will be submitted on Form 5172-1. Work may be performed for ships transiting the Canal or making Canal ports, irrespective of cost, without the authority of the Governor. Work for other individuals and companies must be authorized by the Governor when the estimated cost exceeds \$500 \$500.

4. The division performing work for outside interests must ascertain that a deposit has been made to cover or that payment is otherwise satisfactorily secured in accordance with regulations,

before the work is started.

5. Blanket work requests will be submitted on 5. Blanket work requests will be submitted on Form 159, and do not require the authorization of the Governor. They will be allowed to run until terminated or modified by the department or division making the request. Unless the work to be performed is specified on the blanket authority, individual jobs under blanket authorities must be requested on Form 3431, and will be limited to \$75. limited to \$75.

6. Maintenance and repairs of floating equipment and rolling stock in operation, electrical equipment, et celera, and regular routine work such as loading and shipping of scrap wood for kindling, inspection of boilers and scales, et celera, for which blanket authority has been issued on Form 159, may be requested on Form 3431, irre-

spective of cost.

7. No manufacturing work or work other than that specified in paragraph 6, will be authorized on Form 3431, in excess of \$75, and when it is found that the cost of work requested will exceed this amount, Form 3431 must be returned for submission of regular work request, Form 159, for the approval of the head of the department or division. This shall not be construed however as giving authority to divide up work that would otherwise fall naturally under paragraph 1 of this circular into separate items.

8. Ordinary maintenance and repairs to Canal Zone waterworks, sewers, and roads may be made without work request. Ordinary maintenance to include minor repairs to pump stations, filtration plants, patching of roads or repairing breaks in water or sewer mains, et cetera: but all extensive repairs to waterworks, sewers, or 7. No manufacturing work or work other than

all extensive repairs to waterworks, sewers, or roads, irrespective of cost, must be requested on Form 159 and authorized by the Governor. A monthly statement will be submitted to the Governor showing the expense, by towns, for all maintenance work. maintenance work.

maintenance work.

9. These forms are intended to obviate requests or recommendations being made by letter covering work to be performed by another department or division, but in addition they will take the place of requests for special authority when the work is to be performed by the department or division making the request.

10. Estimates will be prepared and charges rendered in accordance with directions contained in the circular covering percentages and surcharges or as it may be modified from time to

charges, or as it may be modified from time to

11. The estimated cost must be shown on all work requests. The division performing any work will advise the division for which the work is being performed when it is found that the estimated cost of any job will be materially ex-

ceeded.
12. Correspondence relating to any particular request shall give the number and date of same. CHESTER HARDING,

Governor.

PANAMA RAILROAD COMPANY,

Office of Superintendent, Balboa Heights, C. Z., November 10, 1919.

Rates for Use of Railroad Motor Cars.

To all concerned-Circular No. RA-642, dated April 17, 1919, covering rates for use of railroad motor cars operated by The Panama Canal, is amended to read as follows:

occupants in one direction for not more than four hours from the time the car is ordered until the time it is released, and that \$5 additional will be charged for each half hour or fraction thereof in excess of four hours that the car is used or detained by the party.

Permission to use these cars for transportation of passengers must be obtained from the Execu-tive Office. The Panama Canal will charge the tive Office. The Panama Canal will charge the Panama Railroad at the hourly rate for the number of hours that the cars are in use, from the time called until returned. The Panama Railroad will collect at the above rates.

Employees and those entitled to employees' rates will not be required to furnish any form of transportation. Outsiders will be required to purpher first class tickets.

purchase first-class tickets

It is to be understood that these cars will only be used in emergency cases, such as making connections with steamers.

Ordinarily, when special transportation service is requested, the Panama Railroad will furnish special trains in accordance with Circular 536.

S. W. HEALD,

Superintendent.

Approved: CHESTER HARDING. Governor.

Stationery:

Scrap Grindstones.

THE PANAMA CANAL, SUPPLY DEPARTMENT.

Balboa Heights, C. Z., November 14, 1919. HEADS OF DEPARTMENTS AND DIVISIONS:

The Cattle Industry is in need of scrap grind-stones for use of silver employees in sharpening stones for use of silver employees in sharpening machetes, incident to pasture-clearing work. It is respectfully requested, therefore, that all old pieces of grindstones not in use by the different departments and divisions be for warded to Mr. L. A. Byrues, Frijoles, where they can be made good use of. The Cattle Industry, of course, will pay freight charges on the grindstones. In this connection, you are advised that grindstones are now carried as expendable material, the frames only being considered nonexpendable.

the frames only being considered nonexpendable. R. K. Morris,

Chief Quartermaster.

Sitton, Moses, Box 289

Miss Rose,

Torrento, Box 235

Misdirected Letters.

Balboa Heights, C. Z., November 17, 1919. The following insufficiently addressed mail has been received in the office of the Director of Posts. and may be obtained upon request of the address-Request may be made by telephone, calling No. 182, Balboa: Bice, Mrs. Minnie Hutchinson, Charles E., Hutchinson, Charles E., Box 93. Keating, Patrick Levy, Mrs. Rose Livingston, Robert R. Miller, Capt. A. I. Peters, Edwin Piper, Mrs. E. D. Reid, C. Reeve, Mrs. A. L., Box 164 Blackan, Mrs. M. Bodden, Arlington Ceville, Mrs. Leonidas Cloke, Harold C. Davila, Jose, Box 537 Dougherty, Charles F. Gowan, Mrs. John Grey, Egbert, Box 839 Hallett, B. Hanson, George

October Rainfall for Three Years.

Hardrick, Eddie

Harris, Claxton W.

	 	INCHES				
Stations.	1919	1919 1918 191		Station average.	Years of record.	Rainy days, 1919.
Central section— Culebra Camacho Empire Gamboa Juan Mina	11.82 12.11 11.54 11.55 16.37 15.62 13.66 12.41 11.72 14.57 15.46 12.01 18.92 15.85 15.84 17.46 20.65 21.94	8.52 9.16 10.01 16.02 16.81 16.66 20.15 17.25 16.77 12.03 13.81 19.36 15.71 23.57 22.73 27.30 27.07	5.79 6.14 7.56 6.01 5.92 5.56 6.76 6.38 11.21 11.75 13.73 16.88 9.20 10.03 10.04 10.05 10.50 7.87	9.44 10.33 12.00 11.79 12.74 11.56 13.23 13.22 12.76 14.81 14.08 15.86 16.28 14.60 16.72	21 23 12 12 15 31 14 15 37 10 21 12 8 12 12 12	21 22 23 24 29 27 30 29 27 22 26 27 27 22 26 27

Additions to Commissary Stock.

Dry Goods Section.

Bags, shopping, Mochilas, ea	\$0.73
Braid, E. Z., trim, assorted colors, 2-yd. pc	. 25
Pins, hair, invisible, bronze, 11", pkg	.04
Pins, hair, invisible, bronze, 2", pkg	.04

Pencils, Eversharp, ea	\$0.89
Pencils, Eversharp, ea	1,20
Pencils, Eversharp, ea	1.40
Pencils, Eversharp, ea	1.20
Pancils Eversham of	
Pencils, Eversharp, ea	1.40
Pencils, Eversharp, ea	2.00
Pencils, Eversharp, ea	2.40
Suiting:	
Alpaca, men's, 54", yd. Alpaca, men's, 54", yd.	1.90
Alpaca, men's, 54", yd	1.35
Cotton and jute, tropical, 54", vd	1.80
Cotton and jute, tropical, 54", yd Cotton and jute, tropical, 54", yd	1.30
Drill union bleached 27" vd	.86
Drill union bleached 27" vd	1.05
Drill, union, bleached, 27", yd. Drill, union, bleached, 27", yd. Duck, union, tropical, 27", yd.	
Some blue 560 1	.49
Serge, blue, 56", yd. Serge, blue, 56", yd. Serge, blue, 56", yd.	4.80
Serge, blue, 56", yd	4.95
Serge, blue, 56", yd	4.95
Serge, blue, 54", yd	3.85
Groceries Section.	
Aerated waters and beverages:	
Club soda, P. C., bot	.09
(5 cents refund for return of empty bot	tle.)
Arrow root, powdered (for steamship trade	
only) 5-lb. tin, per lb	. 36
Jam, Peachlade, 2s tin	.34
Jelly, Guava, Cuba, ½-lb. box.	.14
Paste, Guava, Cuban, 1-lb. box.	.19
	.38
Peas, petit pois, French, 1s tin	. 30
Hardware Section.	
Cases, key, pigskin, 6-hook, ea	.56
Forks, kitchen, ea	.17
Lamps, bicycle, Everlit, ea	1.80
Pumps, bicycle, Crown, ea	1.35
Shells, shotgun, smokeless powder, 16 gauge,	
No. 1-B shot, 25s box	1.05
Shells, shotgun, smokeless powder, 16 gauge,	
No. 4 shot, 25s box	1.05
Shells, shotgun, smokeless powder, 16 gauge,	
No 6 shot 25s how	1 07

Note.—To be stocked at Cristobal, Balboa, Ancon, Gatun, and Pedro Miguel Commissaries only.

1 05

1.05

Rainfall from Oct. 1 to 31, 1919, Inclusive.

Railitan from Oct. 1 to 31, 1918, inclusive.					
STATIONS.	Maximum in one day.	Date.	Total.		
Pacific section— Taboga Balboa Balboa Heights Miraflores Pedro Miguel Rio Grande Centra' section— *Culebra *Camacho Empire Gamboa *Juan Mina Alhajuela Vigia Darien *Trinidad *Monte Lirio Atlantic section— Gatun *Brazos Brook Colon ;Bocas del Toro Porto Bello	Ins. 2.00 1.90 2.02 2.18 1.98 3.33 2.15 2.76 2.16 2.29 4.04 3.2.00 1.95 2.74 2.36 2.10 3.51 1.20 3.41	10 & 15 18 18 18 18 24 19 18 18 10 22 24 19 18 10 22 24 10 31 11	Ins. 10.35 11.82 12.11 11.54 11.25 16.37 15.62 13.66 12.41 11.72 14.57 15.84 17.46 12.01 11.57 15.84 17.46 12.01 11.57 15.84		
# Standard rain gauge randing					

*Standard rain gauge—readings at 5 p. m. daily. Automatic rain gauge at unstarred stations—values, midnight to midnight. Standard rain gauge-readings at 8 a. m. daily.

THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

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Entered as second-class matter, February 6, 1918, at the Fost Office
at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII. Balboa Heights, C. Z., November 26, 1919. No. 15.

Sailing Ships through the Canal.

The 3-masted bark Georgette, loaded with lumber, arrived at Balboa from Seattle on November 23, on her way to Alexandria, Egypt. Thirty-five thousand feet of her cargo of 882 tons had gone overboard in a storm. The Georgette is 187 feet 8 inches in length by 36 feet beam, and has Panama Canal net tonnage of 757. She carries a crew of 13, including the wife and two children of the master, who are signed on. The distance from Seattle to Alexandria by the routes of steamships is 10,279 miles by way of the Canal.

On the same day the 4-masted bark *Annie M. Reid* came in from San Francisco, on the way to the United Kingdom with a cargo of 3,220 tons of barley. She is 291 feet 3 inches long by 42 feet 2 inches

beam, and her Canal net tonnage is 2,079.

From July 1, 1917, to November 1, 1919, 111 sailing ships have made the transit of the Canal. During the same period 4,677 other commercial ships passed through. The sailing ships were, accordingly, 2.37 per cent of the steam and motor ships. Their aggregate net tonnage was 208,568 tons, Panama Canal measurement, 1.41 per cent of the net tonnage of the other commercial ships. The sailing ships had an average net tonnage of 1,879 tons.

The numbers of sailing ships passing through the Canal each month in the period, with their aggregate net tonnages, are given below:

** *	Net tons		Net tons,	To	tal.	
Month.	Vessels.	P. C.	Vessels.	P. C.	Vessels.	Net tons P. C.
Tuly, 1917	2	3,183	1	1,041	3	4.22
August			1	835	ĭ	83
September			1	533	i	533
October]	2	3,121	2	3,121
November						
Dereinber	1	2,166			1	2.166
January, 1918			2	5,325	2	5,323
February			4	9,731	4	9,731
March			2	2,467	2	2,467
April	4	5,463	3	7,861	7	13,324
May	5	10,683	1	2,324	6	13,00
June	3	5,762	2 5	4,379	5	10,14
July		8,891	5	12,778	10	21,669
August		4,124	5	9,827	8	13,95
September		2,658	4	4.948	5	7,60
October		2,667	5	11,049	6	13,71
November		10,597	4	7.413	9	18,01
December		4,788	1	2,658	4	7,44
January, 1919		10,225	2	4.991	7	15,21
February		2,345	1	2,206	2	4,55
March			2 5	5,648	2 7	5,64
April	2	4,063	5	7,936	7	11,999
May			1	1,630	1	1,630
June	1	875	3	4,725	4	5,600
Jaly				1,171	1	1,17
August			4	6,162	4	6,16
September			6	8,665	6	8,66
October			1	654	1	65
Total	42	78,490	69	130,078	111	208,56

For the 28 months the average number of sailing ships per month from Atlantic to Pacific was 1.5, and from Pacific to Atlantic, 2.46, average total of 3.96. The average aggregate net tonnage per month was 7,448.8 tons.

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight, November 22, 1919.

	Canal	Net Net	1, 999 709 706 706 706 706 707 708 707 708 708 708 708 708 708 708	11,910 13,047 11,302 11,302 11,302 11,302 11,302 11,302 11,302 11,302 11,302 12,170 13,273 13,083 13,083 13,273
	PanamaCanal tonnage	Gross	2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3,0011 1,625 1
		Tons	2,545 2,545 2,232 4,710 4,710 4,710 1,439 1,439 1,439 1,095 1,095 1,095 1,095	2,450 11,380 12,757 12,380 13,560 14,103 14,686 14,686 14,686 14,686 16,886 16,
		Cargo	Coke General	Pincapples, can'd Nitrates Railroad ties General Douglas fr hun. Hops, general General General Mitrates Ballast Nitrates Nitrate, can'd Nitrate, can'd
		For	Valparaiso Manta. Manta. Sameraldas. Valparaiso Callao Callao Callao Callao Callao San Francisco Callao San Francisco Callao	New York. Wilmington United King. Cristobal Genoa, Italy London Liverpool Cristobal Liverpool Tampico Pasajes New York
		From	Baltimore Cristobal Genera Genera Genera Genera Glasgew New York Rotterdam Liverpool Habana New York New York Cristobal Cristobal Cristobal New York	Honolulu. Caleta Buena. Calloa Scattle Scattle Scattle Pura Arenas. Pura Arenas. Taleta Buena. Honolulu. Taleshuano.
್	S.	water	113.0 113.0 114.0 115.0 11	25.00 25.00
PACIFI		Length Beam water draft	44111 46.8 46.8 46.8 46.8 46.8 46.0 52.0	252.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2
NTIC TO		Length	289.0 235.0 380.3 380.3 380.3 360.0 400.0 400.0 375.0 375.0 414.5 375.0 410.6	994.0 996.0 906.0 906.0 906.0 906.0 906.0 906.0 906.0 906.0 906.0 906.0 906.0 906.0 906.0 906.0 906.0 906.0
THROUGH THE CANAL-ATLANTIC TO PACIFIC.		Line	United States Shipping Board. 289, 0 Pacific Steam Navigation Co. 215.7 33.5 1 La Volconbian Maritime Company. 380.3 46.8 1 La Volcoe Steamship Line. 380.3 46.8 1 Perenof Government. 360.0 46.0 2 Rankin Gilmour & Co. 400.6 53.0 2 Rankin Gilmour & Co. 400.6 53.0 2 Rankin Gilmour & Co. 400.6 53.0 2 Royal Netherland Steamship Co. 370.0 630.0 1 Pacific Rani Steamship Co. 260.0 38.6 2.0 2 American-Hawaiian S. Line. 273.0 49.0 2 United States Shipping Board. 414.5 53.7 2 United States Shipping Board. 416.6 54.1 2 American-Ranaship Line. 360.0 460.0 1 Pacific Steamship Line. 360.0 46.0 1 Pacific Steamship Line. 360.0 46.0 1 Pacific Steamship Co. 404.6 53.0 1 Pacific Steam Navization Co. 246.0 33.0 1 Pacific Steam Navization Co. 404.6 33.0 1 Ratific Pack. 300.0 244.0 33.0 1 Ratific Language Remarkin Co. 404.6 33.0 1	United States Shipping Board. United States Shipping Board. United States Shipping Board. Penryan Line. Egil Nashelm & Co. United States Shipping Board. Pacific Steam Navigation Co. United States Army. Pacific States Navigation Co. Naviera Baracaldo. Naviera Baracaldo. W. Willelmson. Cla Naviera Cuipurceana. Cla Naviera Cuipurceana. Cla Naviera Cuipurceana. Fuited States Shipping Board. Pacific Steam Navigation Co.
		Nationality	American British American Hallanc Brazilisn Brazilish British British American American American American American American Peruyan British American American American American British American American American American	American. American. Peruvian Portian Nowegian. British American British Spanish. Spanish. Spanish. Spanish. Spanish. British
	Cleared for sea	1noH	14.16 14.16 15.17 16.17 17.17	115.00 12.00 12.00 12.00 12.00 12.00 13.00 10.00
	Cle	Day	22222222222222222222222222222222222222	25 25 118 128 128 128 128 128 128 128 128 128
	leted	1noH	20. 10 20. 10	13.50 16.29 17.38
	Completed	Day	100 100 100 100 100 100 100 100 100 100	16 16 16 17 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
		TuoH	6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15	6.28 10.29 10.29 10.25 10.25 10.25 10.07 10.07 10.07 10.07
	Entered Canal	Day	222222222222222222222222222222222222222	100 100 100 100 100 100 100 100 100 100
	Arrived at port	1noH	15. 0.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	25.25.25.20.00.20.20.20.20.20.20.20.20.20.20.20.
	Arr	Day	25.000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	412 10 10 10 10 10 10 10 10 10 10 10 10 10
		Ship	Glymont Acajuda Baloba Baloba Bobera Bobera Bonton Hualara Correla Delt Correla U.S.S. Houston West Malomet U.S.S. Houston West Malomet Alfonso Perez Andraw	Deva Bantu Bantu Matakat Matakat Orani Mexico Li. David Put- man (a) Mexico Li. David Autica man (a) Mexico Li. David Put- man (b) Callanta Callanta Calvert Corcovado (a) Launch

2,977 6,373 4,922	1,915	1,593	016,1	692 3,492	3,969
4,505 9,416 6,580	3,113	2,379	3,011	1,213	5,371
979 9,173 7,990	2,263	1,249	1,870	4,000	5,350
General 979 4,505 2,977 Wheat 9,173 9,416 6,373 Flour 7,990 6,580 4,922	Fir lumber	General	Flour Railroad ties	General	General
Cristobal Falmouth	Philadelphia Cristobal	Cristobal	New York	Cristobal	Cristobal
Valparaiso Adelaide	Bellingham	San Francisco.	Portland	Champerico	BalboaValparaiso
25.6 26.6	$\frac{25.0}{10.0}$	11.8	24.6	12.6 26.0	23.6
44.3 62.7 53.0	49.1 25.6	37.0	54.2	33.5	51.4
379.6 44.3 28.6 402.6 53.0 26.6	273.6 81.0	283.0	409.8 294.0	215.0 400.3	364.5
Chilean Line. British Government. United States Shipping Board.	United States Shipping Board Pacific Metals Corporation	Pacific Steam Navigation Co	United States Shipping Board	Pacific Steam Navigation Co	United States Navy
Chilean British	American British		: :		American
10.10 20.39 6.27	5.35		12.50	22 19 20	19.30
21 24	18 22	15	28 22 33 21	23 23 25	36 22
20 15.21 20 16.11	20.00	0 22.	116.	25	2 18. 2 18.
8.37	38.2	4.45	7.41	3.57	500
20 8					
23.00	388	35	30	282	000
19					
Aysen	Gray Cloud	Jamaica	West Pocasset.	Salvador	S. C. 284Valparaiso

Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

PORT OF CRISTOBAL.

	For	Port Limon. New Orleans and wayports Norfolk. Calombian ports. Calombian ports. New Orleans and wayports New York via Haiti. Cartagena.			Arica.
*DEPARTURES	Line	Vor folk. Nov. 19 Nov. 20 Nov. 20 Nov. 20 Abangarez United Fruit Company United Fruit Company Nov. 21 Abangarez United States Shipping Board Onted States Shipping Board Onted States Shipping Board Nov. 22 Allianca Nov. 24 Middlebury Panama Railroad Commissary Cartagena Nov Orleansand wa Nork via Hait Nov. 22 Allianca Nov. 24 Allianca Nov. 25 Allianca Nov. 25 Allianca Nov. 25 Allianca Nov. 20 Allianca No		*OEPARTURES	Cia Anon de Nav Arica.
	Vessels	Tivives Metapan Metapan Abangares Namocki Namocki Matapan Alianen Middlobury			Nov. 17 Donostia
	Date	Nov. 19 Nov. 19 Nov. 20 Nov. 21 Nov. 22 Nov. 22 Nov. 22	PORT OF BALBOA.		Nov. 17
	From	AMMAN	PORT OF		Sea.
*ARRIVALS	Line	Panama Railroad Steamship Line. Panama Railroad Steamship Line. United Pruit Company. Panama Hailroad Steamship Line. Shipping Controller. United Fruit Company. United Fruit Company. United Fruit Company. United Fruit Company. United States Shipping Board. Harrison Steamship Line. Harrison Steamship Line. United Fruit Company. Panama Railroad Commissary. Panama Railroad Commissary. Panama Railroad Steamship Line. United States Shipping Board.		*ARRIVALS	Cia Anon de Nav
	Vessels	Ulysses. Alfianca Medainca Medelenburg. Mecklenburg. Tivives. Tivives. Abungarez Abungarez Senator Medann Medalebury Colon Tillamook.			Nov. 16 Donostia
	Date	NOV. 17. NOV. 17. NOV. 18. S.			Nov. 16

*Other than ships passing through the Canal.

Coal and Laundry Prices.

The Panama Canal has issued the following Supplement No. 2 to Tariff No. 3:

THE PANAMA CANAL, PANAMA RAILROAD COMPANY,
BALBOA HEIGHTS, C. Z., November 8, 1919.

The following amendments are made to Tariff No. 3, Schedule of Rates for Supplies and Services Furnished to Shipping and Allied Interests at the Panama Canal:

ITEM 21.—COAL.

Effective November 16, 1919.		
	istobal~	Balboa.
1. For steamships, including warships of all nations, delivered from	Colon.	
coaling plants or alongside of vessels in lighters or in cars on the		
wharves and trimmed in bunkers, per ton of 2,240 pounds, ex-		
copi as provided in paragraph 2	12 50	01 = 00
cept as provided in paragraph 2	13.50	\$15.50
2. For vessels transiting the Canal that are directed by The Panama		
Canal to take coal at Balboa on account of the condition of the		
plants, the quantity available, or for the purpose of expediting		
transit		13.50
3. To steamships taking less than carload lots from plants, or less		
than 25 tons from lighters	15.00	17.00
4. When request is made by commander of vessel, chief engineer, or		
agent, for trimming on deck, between decks, or special trimming		
in bunkers for convenience of vessel, an additional charge of 60		
cents per ton will be made for extra handling.		
5. For lump coal for galley use, delivered in sacks, additional charge		
per ton, \$10. Should the vessel furnish satisfactory sacks, the		
price will be only \$3 per ton additional. Not more than 5 tons		
will be supplied to a vessel.		
6. For coal for cargo which will be delivered only in exceptional cases		
	16.00	18.00
	10.00	10.00
ITEM 26. I LEADDY		

ITEM 26.—LAUNDRY.

Effective October 15, 1919.

1. For laundry called for and delivered to ship, where the total bill exceeds \$10 the following rates plus 25 per cent will obtain, subject to change without republication in this circular:

Aprons	\$0.01	Napkins	\$0.01
Bedspreads	.15	Nightshirts	.05
Blankets	. 15	Operating gowns	.10
Bolster cases	.01	Pajama suits	.10
Caps, cooks'	.01	Pants, colored	.05
Cloths, table	.02	Pillowcases	.02
Cloths, table, extra large	.05	Sheets	.02
Coats, white	.13	Towels, bath	.02
Covers, furniture	.15	Towels, bath, extra large	.05
Covers, mattress	.05		.02
Curtains	.15	Towels, glass	.02
Doilies	. 01	Towels, roller	.02
Gowns, convalescent	.10	Towels, room	.02
Jumpers	. 05	Towels, side	.02
Mosquito bars	. 10	Trousers, white (cook's, etc.)	. 10

CHESTER HARDING,

Governor The Panama Canal.
President Panama Railroad Company.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending November 22, 1919.

				Car	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
City of Para Laura C. Hall San Juan Şalvador	Pacific Mail Steamship Co	November 19. November 19. November 20. November 22.	November 20. November 21.		Tons. 10

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending November 22, 1919.

-				Car	go-
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Acajutla	Pacific Steam Navigation Co		November 16		Tons.
BolognaCity of Para		November 16.	November 17 November 19.	(*)	(†) 1,521
Mantaro	Peruvian Steamship Line Panama Railroad Steamship Line	November 16. November 17.	November 22. November 22.	2,812 1,802	887 2,349
Metapan Delit	United Fruit Company	November 17. November 17.	November 19. November 19.	1,041 242	(†)
Ulysses Victoria	Panama Railroad Steamship Line Royal Mail Steam Packet Co	November 17. November 18.	November 20. November 19.	12,243	(†) 440
Gen. O. H. Ernst	Panama Railroad Steamship Line United Fruit Company	November 18. November 18.	November 19.	2,345 35	37
Namecki Abangarez	United States Shipping Board United Fruit Company	November 19. November 19.	November 20.	2,748 1,109	(†)
Houston	United States Navy United States Shipping Board	November 19. November 20.		2,934	(†)
Senator	Harrison Line South American Steamship Line	November 20.		930 978	:::::::::::::::::::::::::::::::::::::::
Laura C. Hall	Pacific Metals Corporation Pacific Steam Navigation Co	November 20. November 20.		693	1,001
Cauca	Pacific Steam Navigation Co Panama Railroad Commissary	November 21.	November 22.	500	5
MetapanColon	United Fruit Company Panama Railroad Steamship Line	November 21. November 21.	November 22.	2,822 1,267	
San Juan	Pacific Mail Steamship Line			438	
SalvadorFort Gaines	Pacific Steam Navigation Co Caribbean Steamship Co				<u> </u>

^{*} No cargo discharged.

† No cargo laded.

Italian Line in West Coast Trade.

With the passage of the steamship *Bologna* through the Canal on November 17, on the way from Genoa to Valparaiso, the La Veloce Navigazione Italiana a Vapore ("La Veloce" Line) has begun a regular service between Italy and Ecuadorian, Peruvian, and Chilean ports, in which a steamer will sail about every 60 days. This is an extension through the Canal of the line which has been operating for a number of years between Italian and Caribbean ports, by way of Marseilles, Barcelona, and Teneriffe, and the line will continue its former service both ways while operating on the west coast as well.

Gatun Lake Storage for Dry Season.

Gatun Lake has been allowed to fill to the level of 87 feet above sea level, in preparation for the coming dry season. Ordinarily the surface is raised to 87 feet about the middle of December, but on account of relatively scanty rainfall over the watershed during the early part of November, with the possibility of an early dry season, it was decided to store the customary reserve without delay. A maximum elevation of 87.06 feet at Gatun was reached on November 19, since which date the surface has been controlled at approximately 87. With the surface 87 feet above sea level the depth of water in the Cut is approximately 47 feet.

Sale of the Dredge "Corozal."

The ladder dredge *Corozal*, built at Renfrew, Scotland, in 1911, and used in digging the Canal from April, 1912, to February, 1919, has been transferred to the Engineering Department of the United States Army. The price was \$190,000, and spare parts were listed at \$125,000. The original cost of the *Corozal* was \$449,000. The dredge is to be towed to Philadelphia by a Navy collier.

Panama Railroad Steamship Line Tariff Changes.

The Panama Railroad Steamship Line has issued Supplement No. 2 to Freight Classification and Tariff No. 28, publishing class and commodity rates from New York, N. Y., to Pacific ports in Colombia, Ecuador, Peru, and Chile, effective November 15, 1919.

It affects rates on cement, newsprint paper, and lubricating oil,

and publishes the following concerning storage charges:

The Panama Railroad Steamship Line will collect from shippers storage charges at the rate of 10 cents per day per bill of lading ton or fraction thereof, or 5 cents per package per day, at steamer's option, on all packages for which shipping documents (bills of lading, and, when required, consular papers) are not presented at this office in time to be forwarded by the steamer carrying the cargo. The charge will be counted from the date of departure of steamer carrying the cargo up to and including the date of departure of the subsequent steamer upon which the bills of lading are actually forwarded.

Comparative Wind Records.—Cape Mala, Sosa Hill, and Balboa Heights, October, 1919.

The total wind movement for the month of October, 1919, was practically the same at Cape Mala and Sosa Hill, and 59 per cent greater than the wind movement at Balboa Heights. The average hourly velocities were: Sosa Hill, 9.6 miles, Cape Mala, 9.6 miles, and Balboa Heights 6.1 miles.

Northwest winds prevailed at Balboa Heights and Sosa Hill and southwest winds

at Cape Mala.

The maximum velocities recorded during the mouth were: Sosa Hill, 33 miles from the southeast on the 24th; Balboa Heights, 31 miles from the south on the same date; and Cape Mala, 40 miles from the east on the 4th.

Note—Elevation of anemometers: Sosa Hill, 35 feet above ground and 405 feet above mean sea level; Balboa Heights, 97 feet above ground and 231 feet above sea level; and Cape Mala, 110 feet above ground and 150 feet above sea level.

December Weather Probabilities.

The following weather conditions may be expected at the Canal entrances during the month of December, 1919. Predictions are based on Colon and Ancon-Balboa Heights records for the past 12 and 13 years, respectively:

Winds—With the approach of the dry season, there will be an acceleration of the wind movement at both Canal entrances. North and northeast winds will prevail over the Atlantic Coast, with an average hourly velocity of from 9 to 14 miles an hour, the higher velocity occurring from noon to 5 p.m. The maximum velocity for a 5-minute period is not likely to exceed 35 miles an hour.

Northwest winds will continue over the interior and at the Pacific entrance, the average hourly velocity being from 6 to 9 miles an hour. Here, too, a maximum

velocity of 35 miles an hour may occur during occasional wind squalls.

Rain—The month of December usually marks the transition from rainy season to dry season conditions. Occasionally the dry season begins as early as the 1st of the month, while in other years rainy season weather has continued until the end of the The tendency is for the rains to linger later in the season along the Atlantic Coast than on the Pacific, and for the percentage of daytime rainfall to be greater on the Pacific side. The average rainfall for the month is 11.69 inches at the Atlantic entrance, and 4.28 inches at the Pacific entrance. These averages are for periods of 48 and 22 years, respectively. About 21 days with rain may be expected on the Atlantic Coast and about 15 on the Pacific side, while the average number of days

with heavy rain (1 inch or more) is 3 and 2, respectively.

Fogs—No fogs are likely to occur at either Canal entrance, but night and early morning fogs may be expected over the interior. The average number of fogs during the month over the Gaillard Cut section of the Canal is 15. All of the fogs that occur may be expected to lift or become dissipated before 8.30 a. m.

Temperature—The average shade air temperature will be close to 80° F, over both coasts. On the Atlantic Coast the temperature is not likely to rise above 90° F., or fall lower than 66° F., while on the Pacific side a maximum temperature as high as 94° F. may occur. The minimum record on both coasts is 66° F. The mean daily range in temperature should be about 8° F. on the Atlantic Coast, and 16° on the Pacific.

Barometric pressure—Atmospheric pressure over the Isthmus is remarkably constant and uniform, and except for the well-marked diurnal changes, local fluctuations in pressure are so slight that they have little value as indicators of future weather conditions. The average sea level pressure will continue close to 29.85 inches. The maximum reading for the month is not likely to exceed 30 inches, nor the minimum to fall lower than 29.65 inches.

Relative humidity—With the approach of the dry season there will be a decrease in the percentage of moisture in the air. The humidity should average about 85 per cent over both coasts. The daily range, however, is greater on the Pacific Coast.

Storms—The so-called "northers" occasionally reach as tar south as the Atlantic entrance to the Canal during the period from October or November to April, inclusive. These storms are characterized by brisk, northerly winds, ranging in velocity up to 30 or more miles an hour. The winds alone are of insufficient force seriously to affect navigation, but they are usually accompanied by a heavy sea or swell that may at times prove very troublesome. Local thunderstorms will not be so frequent during the month of December. The average number of thunderstorms during the month is 4 on the Atlantic Coast, and 5 on the Pacific.

Generally smooth seas may be expected throughout the month at the Pacific

entrance to the Canal.

Tides—Tidal fluctuations at Colon are so slight that they need not be considered in navigating the Atlantic entrance to the Canal.

Panama tide predictions for the month are given below:

		I.													
Day	y of-	Time and Height of High		Da	y of-	_ Time and Height of High			Day of-		_ Time and Height of High				
W.	Mo.	and L	ow Water.	W.	v. Mo. and Low Water.		W.	Mo.	•						
M	I	3:33 9:1 3.8 12.		F	12	1:09 0.7	7:17 16.0	1:30	7:49 16.1		23		10:39 1.3	4:43 14.1	10:53
Tu	2	4:35 10:1 3.7 12.		S	13	2:02 1.5	8:08 15.1	2:22	8:39 15.3		24		11:15 1.1	5:22 14.4	11:31 2.4
W	3	5:37 11:2 3.2 13.		s	14	2:59 2.3	9:00 14.1		9:30 14.5	Th	25	5:25 14.3	11:50 1.1	5:57 14.6	
Th	4	6:40 12:3 2.5 13.		М	15	3:58 3.0	$9:55 \\ 13.2$		10:25 13.8	F	26	0:08 2.1	6:02 14.3	12:26	6:32 14.6
F	5	0:59 7:4 15.3 1.		Tu	16		10:56 12.5		11:24 13.3		27	0:46	6:38 14.2	1:04 1.5	7:08 14.6
S	6	1:55 8:3 16.1 0.		W	17		12:01 12.2		••••	s	28	1:28	7:17 14.0	1:44 1.9	7:46 14.6
S	7	2:50 9:3 16.7 -0.		Th	18	0:23 13.2	6:55 3.6	12:59 12.3	7:10 4.4	М	29	2:13 2.5	7:59 13.7	2:30	8:29 14.5
M	8	3:45 10:2 17.2 -1.		F	19	1:15 13.2	7:49 3.3	1:51 12.6	8:05 4.1	Tu	30	3:04		3:22 2.6	9:18 14.4
Tu	9	4:40 11:0 17.3 -1.		S	20	2:02 13.4	8:39 2.7	2:37 13.0	8:53 3.6		31	4:00 2.6	9 :45 13 .1		10:17 14.2
W	10	5:34 11:5 17.2 -1.		1 3	21	2:45 13.7	9:22 2.2	3:20 13.4	9:36 3.2						
Th	11	0:19 6:2 0.0 16.	7 12:40 7:00 7 -0.6 16.7	M	22	3:26 14.0	10:02 1.7		10:16						

The tides are placed in the order of their occurrence; the times of high and low tides are shown on the upper lines. The figures in boldfaced type are hours and elevations between noon and midnight; ante meridian figures are given in the ordinary lightfaced type. The time is Cosmopolitan Standard for the meridian 75° W.

The elevations of the water are shown on the second line for each day; a comparison of consecutive heights will indicate whether it is high or low water. Heights are reckoned from mean low water springs, which is 8.3 below mean sea level and is the datum of soundings on the Coast and Geodetic Survey charts for this region. The depth of water may accordingly be estimated by adding the tabular height of the tide to the soundings, unless a minus (-) sign is before the height, in which case it is to be subtracted. The annual inequality or variation in the mean sea level is included in the predictions. predictions.

Increased Charges for Moving Pictures.

The Governor has approved the following prices to be charged for moving pictures in the Panama Canal clubhouses, effective December 1: Gold clubhouses—Children under 12 years of age, 10 cents; all others, 15 cents.

Silver clubhouses-Children and adults, 10 cents.

These increases are made on account of the increased prices which are being charged for films.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286). Age limits do not apply to persons entitled to preference because of military or naval service.

Specialist in cotton classing or marketing (male and female); \$2,700 to \$3,600 a year; December 23,

1919; form 2118; age, 25 years but not 45 years.*

Mechanical engineer, qualified in internal combustion engine work (male); \$3,000 to \$3,600 a year;

December 23, 1919; form 2118; age, no limits.*

Field and laboratory aid in plant nutrition (male and female); \$1,200 a year; January 11, 1920; form 1312; age, 20 years but not 45 years.

Assistant biologist qualified in economic ornithology (male and female); \$1,440 to \$1,800 a year;

January 11, 1920; form 1312; age, under 45 years.

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications. and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might fead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. Alf claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Charles Dixon		Barbados U. S. A	Camp Bierd Balboa	R. & F. Agent Mechanical Division	October 23, 1919. November 23, 1919.
Cortez	35562	St. Vincent	Panama	Supply Department	November 19, 1919.

Official Circulars.

Acting Captain of the Port, Balboa, and Acting Member of Board of Local Inspectors.

> THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., November 24, 1919.

To all concerned—Effective this date and during the absence on feave of Lieut.-Com. Chas. Svensson, U. S. N. R. F., Capt. L. A. Helliksen will act as Captain of the Port, Balboa, and Member of the Board of Local Inspectors.

CHESTER HARDING,

Governor.

Handling of Scrap.

THE PANAMA CANAL, SUPPLY DEPARTMENT,

Balboa Heights, C. Z., November 13, 1919.

To all concerned—Effective December 1, miscellaneous scrap operations previously handled by the Storekeeper, Cristobaf, will be discontinued and in the future brandled by the General Storekeeper at Bafboa.

On and after December 1 all miscellaneous scrap, including alumínum, babbitt, bags and

scrap, including aluminum, babbitt, bags and burlap, brass, canvas, copper, crucibles, nose, lead, leather, rope, rubber, zinc, ctc., should be collected and forwarded to the General Store-keeper, Balboa, for handling and credit. Until further notice iron and steel scrap should be collected and forwarded to the Storekeeper, Cristobal, for handling and credit.

R. K. Morris. Chief Quartermaster.

Purchase of Reduced Rate Tickets.

PANAMA RAILROAD COMPANY, OFFICE OF MASTER OF TRANSPORTATION, Balboa Heights, C. Z., November 21, 1919. CIRCULAR No. 1423:

Conductors, collectors, and agents-Please informed that photo-metal checks Nos. 1 to 19999 inclusive, are assigned to gold employees, and any holder of a photo-metal check of the above series is entitled to the privileges of a gold roll employee when purchasing reduced rate tickets provided for in Circular RA-660.

W. F. FOSTER, Master of Transportation.

School Holiday.

PANAMA RAILROAD COMPANY, Office of Master of Transportation, Balboa Heights, C. Z., November 18, 1919. CIRCULAR No. 1421:

To conductors and collectors—Canal Zone schools will be closed Thanksgiving Day, November 27, and Friday, November 28.

School passes are not to be honored on those dates.

W. F. FOSTER, Master of Transportation.

Misdirected Letters.

Balboa Heights, C. Z., November 24, 1919.

The following insufficiently addressed letters have been received in the office of the Director of Posts, and may be obtained upon request of the addressees. Request may be made by telephone, calling No. 182, Balboa:

Dwyer, John Gordon Goodyear, D. P. Hammond, Chas. Hubley, Mrs. C. W. Kipping, Victor, Box 875

Macdonald, Robert C. Nieset, Joe. H., Box 528 Rousseau, S. W., Box

Yeager, Frank

Joint Commission.

Rules of Dismissal.

In the matter of the claim of R. S. Arcia, Eusebio In the matter of the claim of R. S. Arcia, Eusebio Morales, Ricardo Arias, et al., for lands known as Rio Indio and Mindi, Rule of Dismissal No. 432, docket No. 3277, November 13, 1819—At the raquest of Carmen Brache, one of the claimants in claim docket No. 3277 who has filed a statement to the effect that she has made settlement direct with representatives of the United States Government, the above-entitled claim is bereby. Government, the above-entitled claim is hereby dismissed insofar as any interest the said Carmen Bracho may have had therein.

Julio J. Fabrega, Burt New, Jorge E. Boyd, George A. Connolly, Commissioners.

In the matter of the claim of Leonardo F. Solorzano for property located in the city of Panama, Rule of Dismissal No. 433, docket No. 3503, November 13, 1919—At the request of counsel for claimant, and in accordance with his motion filed with the Commission on November 10, 1919, the claim of Leonardo F. Solorzano, docket No. 3503 is hereby dismissed.

GEORGE A. CONNOLLY, JORGE E. BOYD, JULIO J. FABREGA, BURT NEW, Commissioners.

Stages of the Chagres and the Lakes.

The maximum elevations of the Chagres River, Gatun Lake, and Miraflores Lake, in feet above mean sea level, during the three weeks ending at midnight of Saturday, November 22, were as fol-

	Chagres	River	Gatun	Lake	Mira-
Date	Vigia	Alha- juela	Gam- boa	Gatun	flores Lake
Sun., Nov. 2. Mon., Nov. 3. Tues., Nov. 4. Wed., Nov. 5. Thurs., Nov. 6. Fri., Nov. 7. Sat., Nov. 8. Sun., Nov. 9. Mon., Nov. 10. Tues., Nov. 11. Wed., Nov. 12. Thurs., Nov. 12. Thurs., Nov. 14. Sat., Nov. 15. Sun., Nov. 16. Mon., Nov. 17. Tues., Nov. 18. Wed., Nov. 19. Thurs., Nov. 19. Thurs., Nov. 20. Fri., Nov. 21. Sat., Nov. 21. Sat., Nov. 21. Sat., Nov. 21.	127.55 127.35 127.26 127.26 127.26 127.26 127.26 128.23 129.20	96.95 94.52 94.52 94.69 93.55 93.72 92.75 92.41 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00	86.75 86.58 86.59 86.57 86.87 86.87 86.87 86.85 86.90 86.90 86.90 86.90 86.90 86.90 86.90 86.90 86.90 86.90	86.58 86.58 86.61 86.75 86.75 86.69 86.70 86.74 86.85 86.94 86.95 87.06 87.06	53 80 53.75
Height of low water to nearest foot.	-	91.0			

Current Prices on Coal, Fuel Oil, and Beef.

Coal is being supplied to steamships, including warships of all nations, delivered and trimmed in bunkers, at \$13.50 per ton of 2,240 pounds at Cristobal and \$15.50 at Balboa. For ships in transit through the Canal, which are directed to take coal at Balboa, for the convenience of The Panama Canal. \$13.50 per ton at Balboa. For ships taking less than carload lots from plants or less than 25 tons from lighters, the price is \$15 per ton at Cristobal, \$17 at Balboa.

Crude fuel oil is delivered to vessels at either Cristobal or Balboa for \$2.00 per barrel of 42

gallons.

Diesel oil is not sold by The Panama Canal, but may be obtained from private concerns at approximately \$3 per barrel. Cable arrangement should be made in advance of arrival of

vessel.

The following are current prices on fresh beef sold from the cold storage plant of the Canal. Prices quoted are United States currency, per pound net:

Beef hinds, 19 cents; beef fores, 14 cents; beef ribs, entire set, 20 cents; short loins, 25 cents. This beef is from Colombian cattle, slaughtered on the 1sthmus.

Additions to Commissary Stock.

Groceries Section.

Plums, egg, 2½s tin	\$0.35
Hardware Section.	
Automobile and motorcycle accessories:	
Bars, handle, bicycle, Sure Grip, No. 4,	0.00
ca	2.80
Pedals, bicycle, Majestic, No. 20, pr	1.10
Chinaware, Doulton, miscellaneous: Bowls, nursery rhyme, Clayton E-1441,	
ca	.89
Bowls, E-4090, 36s, ea	.51
Bowls, sugar, Rheims, E-8079, ea	. 36
Bowls sugar, E-8079, ea	1.05
Jars, jelly, covered, Cecil, E-8079, ea	1.45
Jars, marmalade, covered, E-8079, ea	2.30
Jugs, Clayton, nursery rhyme, E-1441,	1.05
Jugs, Clayton, E-4090, ea	
Jugs, Daly, E-8079, ea	
Mugs. Rex. E-1441, ca	.53
Mugs. Rex. E-4090, ea	.54
Pitchers, cream, Rheims, E-8079, ea	.41
Pitchers, cream, Milner, E-8079, ea	1.25
Pots, tea, Rheims, E-8079, ea	1.65
Stands, hatpin, E-8079, ea	0.0
Sweets, E-8079, ca	0.2
Tidies, hair, E-8079, ea	
110105, 11011, 12 0517, 00.11111111111111111111111111111111111	

Postal Address of The Panama Canal.

The postal address is, "The Panama Canal, alboa Heights, Canal Zone," or "The Panama Balboa Heights, Canal Zone," Canal, Washington, D. C."

Route Service Jitney-Cristobal-Mt. Hope.

The following is the schedule of the official jitney service between the Terminal building at Cristobal and Mount Hope. Cars stop at the office of the Commissary Division each way:

Leave Terminal Building.		Leave Mount Hope.		
A. M. 8.00 8.30 9.00 9.30 10.00	nal Building. P. M. 12.30 1.00 1.30 2.00 2.30 3.00	A. M. 8.15 8.45 9.15 9.45 10.15	P. M. 12.45 1.15 1.45 2.15 2.45 3.15	
10.30	3.30		3.45	

Cable Address of The Panama Canal.

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

Mail for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

Rates at Hotel Aspinwall, Taboga.

The following are the current rates at the Aspinwall:

The following are the current rates at the rispinwan.	
Employees: Dinner, lodging, and breakfast	\$2.00
Employees per day	2.75
Children under 12 years of ageper day	1.25
Servants of employeesper day	1.50
Employees for stay of 7 daysper day	2.00
Reduction of 10 per cent on above rates for stay of 30 days. Reduction of	
10 per cent for families of four or more for over 7 days' stay.	
Nonemployees	3.50
Children of nonemployees (under 12 years of age)per day	1.50
Servants of nonemployeesper day	1.75
Meals:	
Breakfast	1.00
Luncheon	1.25
Dinner	1.25

COMMISSARY NOTES.

Fruit Cake.

Fruit cakes are now being sold in the line commissaries and orders will also be accepted for Christmas and the holidays.

Handkerchiefs.

Ladies' embroidered handkerchiefs, in both linen and cotton, in a wide range of patterns and prices, and Jap silk handkerchiefs in fancy printed designs are now in stock in the line stores. A supply of men's linen and cotton handkerchiefs was also received and forwarded to the line commissaries.

Hosiery.

It is very hard to obtain clocked and fancy hosiery of any description as the manufacturers are reluctant to accept such orders. They have little difficulty selling all of the plain goods they can make and see no reason to retard deliveries by sending hose to be clocked or to reduce production by turning out a variety of styles.

Feather Pillows Laundered.

The laundries at Ancon and Cristobal are prepared to wash, sterilize, and dry feather pillows. This should be of considerable interest to commissary patrons as the method used separates the feathers, restores their fluffiness, and practically renews the pillows. The price for this service is 25 cents.

Ladies' Hats.

A shipment of a popular brand of ladies' sailor hats in a number of different straws and a good range of colors has recently been received by the Commissary Division and will be placed on sale at Ancon, Balboa, Cristobal, Gatun, and Pedro Miguel commissaries on Monday, December 1. They are of the season's latest models and are attractively priced at \$3.20, \$4.10, \$4.80, and \$6.45.

Japanese Goods.

Another shipment of Japanese goods has been received by the Commissary Division and forwarded to the line stores. This consists in part of white ivory beads—hand carved, plain, and in combinations of plain and carved; children's Japanese paper and silk parasols; ladies' pongce silk embroidered parasols, two-tone silk embroidered parasols, and parasols of silk lined with contrasting color; fans both large and small, of sandalwood and silk, hand embroidered of carved white bone and silk, hand embroidered, and of painted silks; men's natural color pongee silk pajamas; men's terry cloth kimono style robes, striped and figured, trimmed with contrasting colors; ladies' plain color cotton crepe kimonos, in assorted colors; an extensive selection of ladies' silk handbags, in practically every popular color; pink and white Kabi silk crepe, pink and white Habutai silk, and natural color pongee silk; and Akebi hand baskets, in a variety of sizes and styles.

Directory of The Panama Canal.

Executive Department.

Headquarters, Balboa Heights.

COLONEL CHESTER HARDING, U. S. A., Governor. M. B. Stevens, Secretary.

C. A. McIlvaine, Executive Secretary.

JOHN H. SMITH, Chief Clerk, Executive Office. Guy Johannes, Chief, Police and Fire Division. Crede H. Calhoun, Chief, Division of Civil Affairs.

A. R. Lang, Superintendent, Division of Schools.
T. S. Booz, General Secretary, Bureau of Clubs and Playgrounds.

FRANK FEUILLE, Special Attorney, Ancon.
WALTER F. VAN DAME, Assistant to the Special Attorney and Land Agent, Ancon.

ALBERT C. HINDMAN, District Attorney, Ancon.

Department of Operation and Maintenance.

(Under immediate direction of the Governor as Head of the Department.) Headquarters, Balboa Heights.

LT.-Col. J. J. Morrow, U. S. A., Engineer of Maintenance.
W. L. Hersh, Electrical Engineer, Electrical Division.
W. R. Holloway, Superintendent, Pacific Locks, Pedro Miguel.
E. D. STILLWELL, Superintendent, Gatun Locks, Gatun.
C. J. Embree, Office Engineer.
O. E. Malsbury, Assistant Engineer, Section of Surveys.
R. Z. Kirkpatrick, Chief Hydrographer, Section of Meteorology and Hydrography.
D. E. Wright, Municipal Engineer, Division of Municipal Engineering.
LIGHT, M. Pratt. Superintendent, Dredging Division, Paraiso.

JOEL M. PRATT, Superintendent, Dredging Division, Paraiso.

JOHN G. CLAYBOURN, Assistant Engineer, Dredging Division, Paraiso. F. E. HOLLERAN, Assistant Engineer, Fortifications Division, Balboa Heights.

T. E. HOLLERAN, Assistant Engineer, Fortifications Division, Baidoa Heights.
T. C. Morris, Resident Engineer, Building Division.
SAMUEL M. Hitt, Architect.
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LIEUT. COM. CHAS. SVENSSON, U. S. N. R. F., Captain of the Port, Balboa.
Board of Local Inspectors—Lieut. Com. J. G. Fels, U. S. N. R. F., Chairman,
LIEUT. COM. CHAS. SVENSSON, U. S. N. R. F., and LIEUT. M. C. DAVIS, U. S. N.
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Headquarters, Balboa Heights.

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Roy R. Watson, Superintendent.
J. J. Jackson, General Manager, Commissary Division, Cristobal.
M. D. Smith, General Storekeeper, Balboa.
W. B. Brown, Superintendent, Control of the Contr

W. B. Brown, Superintendent, Cattle Industry, Cristobal. B. C. Poole, District Quartermaster, Ancon-Balboa, Balboa Heights. J. M. King, District Quartermaster, Cristobal. STANLEY FORD, District Quartermaster, Gatun. C. Peters, District Quartermaster, Pedro Miguel.

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ELWYN GREENE, Assistant Auditor on the Isthmus.

R. W. GLAW, Paymaster. T. L. CLEAR, Collector.

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Headquarters, Balboa Heights.

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Dr. Dalferes P. Curry, Assistant Chief Health Officer.
Surgeon S. B. Grubbs, U. S. P. H. S., Chief Quarantine Officer.
Col. L. T. Hess, U. S. A., Superintendent, Ancon Hospital, Ancon.
Lt.-Col. Guy L. Qualls, U. S. A., Superintendent, Colon Hospital, Cristobal.

DR. LOUIS WENDER, Superintendent, Corozal Hospital, Corozal.
MAJ. E. A. BOCOCK, Superintendent, Santo Tomas Hospital (Panama), Ancon.

DR. HENRY GOLDTHWAITE, Health Officer of Panama, Ancon.

Dr. Jesse L. Byrd, Health Officer of Cristobal-Colon, Cristobal.

Courts.

JOHN W. HANAN, District Judge, Ancon. MIGUEL A. OTERO, Marshal, Ancon. E. M. Goolsby, Clerk, Ancon. Wm. B. Cheatham, Clerk, Cristobal. J. W. Blackburn, Magistrate, Balboa. John W. Thompson, Magistrate, Cristobal.

The Panama Canal in the United States.

Headquarters, Washington, D. C.

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R. E. RUTHERFORD, Assistant Purchasing Agent, 24 State Street, New York, N. Y.

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Panama Railroad Company.

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W. F. Foster, Master of Transportation, Balboa Heights.

M. B. Connolly, Roadmaster, Balboa Heights. R. B. Walker, Receiving and Forwarding Agent, Cristobal. T. W. McFarlane, Superintendent, Coaling Plants, Cristobal.

Frank Feuille, Counsel, Ancon.

WALTER F. VAN DAME, Assistant to the Counsel and Land Agent, Ancon.

Office in the United States, 24 State Street, New York City.

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SYLVESTER DEMING, Treasurer, New York.
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R. E. RUTHERFORD, Commissary Purchasing Agent, New York.

A. S. Perry, Assistant Commissary Purchasing Agent, New Orleans, La.

Joint Commission.

HON. MANUEL WALLS Y MERINO, Umpire, Panama City, and Ancon. FEDERICO BOYD, Member, Panama City. GEORGE A. CONNOLLY, Member, Ancon. Julio J. Fabrega, Member, Panama City. Burt New, Member, Ancon. Miss Genella Bliss, Secretary.

THE PANAMA CANAL RECORD



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Volume XIII. Balboa Heights, C. Z., December 3, 1919.

No. 16.

LINES THROUGH THE CANAL.

Services in Fairly Regular Operation over the Great Trade Routes.

The following is a summary of the principal regular, or fairly regular, services through the Canal at present. War and post-war conditions have affected the regularity of the sailings, and with the release of more ships from government service new developments are taking place all the time. This summary endeavors to present the best approximation of present services:

From the Atlantic terminus to South and Central America—The Pacific Steam Navigation Company has services from Cristobal to west coast ports as far south as Valparaiso and Coronel and as far north as Champerico, calling at the principal wayports. Sailings for the Central American ports to the north are monthly. Sailings for Tumaco and Ecuadorian ports, as far as Guayaquil, are every few days; sailings to Valparaiso via Chilean and Peruvian ports are fortnightly; and a service between Cristobal and Buenaventura and Tumaco has a sailing every three weeks.

The Compañia Sud-Americana de Vapores (South American Steamship Co.), (Chilean Line), maintains practically a weekly service between Cristobal and Valparaiso, calling at all important Peruvian and Chilean ports. This company has just purchased an additional 5,000-ton steamer which should be in this service during January.

The Peruvian Steamship and Dock Company of Callao (Peruvian Line) maintains a service between Cristobal and Peruvian ports, going as far south as Mollendo and making its principal calls on the way at Paita, Eten. Pacasmayo, Salaverry, Callao, and southern ports. The line has sailings each way once a week.

The Pacific Metals Corporation operates a motor schooner between Cristobal and Buenaventura, Colombia, carrying cargo, making round voyages approximately twice a month.

The Colombian Maritime Steamship Company, Limited, operates a vessel in regular service between Cristobal and Buenaventura and Tumaco, making about two round voyages a month.

All of the lines named above, except the Pacific Metals Corporation,

carry both passengers and cargo.

From the Atlantic terminus to Central and North America—The Pacific Mail Steamship Company is operating a line between Cristobal and San Francisco, with a sailing each way about every 15 days. Calls are made at ports of Central America and Mexico on the way, and passengers are carried.

From the Atlantic Coast of the United States to the Pacific Coast of South America—Many of the vessels plying over this route are in the petroleum or the nitrate trade and used exclusively by charterers; the following commercial lines maintain fairly regular services:

The Merchants' Line, operated by W. R. Grace and Company, plies between New York and ports of Ecuador, Peru, and Chile, with a sailing each way about every week, with calls at Buenaventura as cargo justifies.

The Pacific Steam Navigation Company has recently inaugurated a passenger and cargo service between New York and Valparaiso, calling at Callao, Mollendo, Arica, Iquique, and Antofagasta each way. The

service is approximately fortnightly in both directions.

The United States Steel Products Company operates the New York and South America Line between New York and the west coast, as far south as Valparaiso, with a sailing each way about every third week.

The New Orleans and South America Steamship Company operates a monthly service from New Orleans to Ecuadorian, Peruvian, and Chilean ports. This service is in addition to a service from New Orleans to Cristobal, via Habana and Porto Rican ports, Trinidad, and Guadeloupe.

The Grace Line operates two passenger-carrying ships between New York and Peruvian and Chilean ports. Sailings are about every 20 days; with the addition of three new ships, a fortnightly service is to

be established.

The West Coast Line (Wessels, Duval, and Company), plies between New York and Chile and Peru, with a vessel going each way about every third week.

The Merchants' Line, the United States Steel Products Company's Line, and the West Coast Line carry cargo only. The others named

in this section carry both passengers and cargo.

From Europe to the Pacific Coast of South America—The East Asiatic Company has a line from Copenhagen, by way of Gothenburg and Christiania, to Valparaiso and intermediate ports, operating on a fortnightly schedule. Passengers are carried.

The Johnson Line plies between Swedish and other Scandinavian ports and the west coast, as far as Valparaiso, with a sailing each

way about every 60 days. Passengers are carried.

The vessels of the Nautilus Steam Shipping Company (the old Gulf Line) sailing from Great Britain to the west coast of South America via the Strait of Magellan, and returning up the coast, make the home voyage through the Canal. The service has cargo steamers, monthly.

The Royal Dutch West India Mail Steamship Company has approximately a monthly service from Rotterdam to the west coast of South

America and return. The ships handle cargo only.

The Pacific Steam Navigation Company has practically a weekly sailing from Great Britain to Peru and Chile; and vice versa, both via the Panama Canal and Straits of Magellan, the larger steamers using the latter route only.

Beginning in January, 1920, the Compagnie Generale Transatlantique (French Line) is to operate a monthly freight service between Havre and Valparaiso, via Ecuadorian, Peruvian, and Chilean ports.

The La Veloce Navigazione Italiana a Vapore ("La Veloce" Line) has a line from Genoa, Italy, to Valparaiso, calling at Marseilles, Barcelona, Tenerife, Barbados, Trinidad, Venezuela, Curaçao, Colombian ports, Port Limen, Cristobal, and Ecuadorian, Peruvian, and Chilean ports each way, with a sailing every 60 days. Passengers and cargo are carried.

The transfer service at the Atlantic terminus of the Canal, referred to in the first section of this article, cares for a large part of European shipments through the Canal to the west coast of South America.

From Europe to the west coast of North America—The East Asiatic Company has a service between Scandinavian ports and San Francisco, operating a vessel each way about every fourth week. The ships carry passengers.

The Johnson Line has a service over this route, primarily between Sweden and San Francisco, with a vessel each way about every 60 days,

with passengers.

The Norway-Pacific Line operates motor vessels, carrying a few passengers, between Scandinavian ports and the Pacific Coast of the United States.

The Harrison-Direct Line has a service between Great Britain and the west coast as far as Puget Sound, with a vessel each way approxi-

mately every sixth week. These are cargo ships.

The Maple Leaf Line plies from New York to Vancouver, to return to Europe by way of California ports and Santa Rosalia. Ships of this line are scheduled to sail every five weeks. They do not carry passengers.

From the Atlantic Coast of the United States to Japan, Siberia, China, and the Philippine Islands—The movements of vessels over this trade route have not been regular, as most of the ships load and clear as cargo offers and do not attempt a fixed schedule. The tendency to this practice is fostered by the length of the voyage and a general uncertainty as to the return voyage, with what cargo and by what route.

The principal lines operating in this service are the American and Oriental Line, the Barber Line, Shewan Tomes and Company, and Alfred Holt and Company, sending out a vessel, among them, about once every 10 days from New York; the American and Manchurian Line (Ellerman and Bucknall), about once in three weeks; the Nippon Yusen Kabushiki Kaisha, approximately semimonthly in each direction; and ships operated by Norton, Lilly, and Company sail at irregular intervals, approximately once a month.

The Osaka Shosen Kaisha has a line between Japan and New Orleans,

via Cuba, with a ship in each direction every month.

It may be noted here that the East Asiatic Company sends an occasional vessel to the Far East direct through the Canal; and at irregular times the vessels of the company return from the Far East to Denmark through the Panama Canal.

The Panama Far East Line sends ships through the Canal, outward bound from New Orleans, Mobile, and other Gulf ports to Japan and will continue the service according to the availability of tonnage.

The Toyo Kisen Kaisha started in November a service between New York and the Orient, via Cuba, the Canal, and San Francisco,

with a ship each way every 60 days.

The Prince Line uses the Canal for its service between the Far East and Boston and New York. Some of the ships have sailed to or from Vladivostok, others from Japan, others from Australia. The sailings

are irregular, and passengers are not carried.

From the Atlantic Coast of the United States to Australia and New Zealand—The United States and Australia Line operates between New York and the ports of New Zealand and Australia, with a vessel out about every month.

The Ellerman Lines have a service from New York to Australia and New Zealand, with irregular sailings.

The Luckenbach line is operating a service to Australia and New

Zealand, with irregular sailings.

The Federal Steam Navigation Company has established a line between New Zealand and New York, with a ship each way approximately every six weeks.

The American and Australian Line operates between New York

and Australia, with a vessel each way about every 30 days.

The Commonwealth and Dominion Line serves these trade areas,

with a ship about every fourth week.

The Stoomvarts Maatschappe Nederland, the Rotterdamsche Lloyd, and the Holland-American Line cooperate in a service between

New York and Batavia, Surabaya, and Samarang.

From Europe to Australia and New Zealand—The New Zealand Shipping Company operates a line between New Zealand and Great Britain with possible way calls at Norfolk and New York. Sailings each way are every 28 days for mail boats, carrying passengers, with intermediate sailings of cargo ships.

The Commonwealth Government Line, operated by the Government of Australia, between Great Britain and Australia, via United States ports, has a large fleet of cargo and passenger steamers, with irregular sailings at present, averaging approximately a vessel outward every three weeks, returning by the Suez Canal or the Cape of Good Hope.

The Federal Steam Navigation Company operates over the same

route, with a ship each way about once a month.

The Shaw, Savill and Albion Company, Limited, of London, has been sending all of its ships through the Canal on both the homeward and outward voyages between Great Britain and New Zealand. The service is irregular but is settling down to a mail and passenger steamer each way every month and a cargo vessel every two weeks.

The Swedish East Asiatic Company has an irregular service be-

tween Scandinavian ports and the Far East.

United States coastwise trade—At the present time the regular service in the United States coastwise trade is only the service of the Pacific Mail Steamship Company between Baltimore and San Francisco, via Habana and Puerto Colombia on the Atlantic, and via Central American ports on the Pacific side, with a vessel each way every three weeks, carrying cargo only.

CONNECTING LINES AT TERMINALS.

In connection with the traffic through the Canal, important business is carried on in the transfer of cargo and passengers between connecting carriers at the terminals of the Canal, especially Cristobal, at the Atlantic end. The following are the lines which call regularly at the terminals either with or without passing through the Canal:

The United Fruit Company operates a weekly service from New Orleans to Cristobal direct. These steamers return to New Orleans weekly, going via Bocas del Toro and Habana. This company operates a line from New York via Kingston to Cristobal, thence to Colombian ports, returning to Cristobal, sailing weekly to New York via Kingston. Also a line from New York via Habana to Cristobal, thence to Costa Rica, and direct to New York, sailing weekly.

The Panama Railroad Steamship Line maintains weekly sailings between New York and Cristobal, via Port au Prince, Haiti, carrying passengers and cargo, with supplementary sailings between New York and Cristobal direct, about every 10 days, of vessels carrying cargo only. A service is operated between Cristobal and Cartagena, Colombia, via Cispata, approximately weekly, carrying passengers and freight. A line handling coal to the coaling plants at Cristobal is operated from Norfolk, with sailings about fortnightly.

The service of La Veloce Line, noted under the section on lines between Europe and the west coast of South America, makes stops

at Cristobal.

The Compañia Trasatlantica de Barcelona (Spanish Line) has a monthly service, carrying passengers and cargo, from Barcelona to Cristobal via Malaga, Valencia, Cadiz, Santa Cruz, and Las Palmas in the Canary Islands, San Juan, Porto Rico, and Habana; returning via Puerto Colombia, Curação, Puerto Cabello, La Guaira, San Juan, Porto Rico, Canary Islands, Cadiz, and Barcelona.

The Compagnie Generale Transatlantique (French Line) operates fortnightly service between Cristobal and Havre, Saint Nazaire, and Bordeaux, via ports of Colombia, Venezuela, Trinidad, and the French West Indies. Vessels carry both passengers and cargo. Services are now irregular, but it is expected, will be resumed punctually early in 1920.

The Leyland and Harrison Lines together maintain a service through Caribbean and Gulf of Mexico ports, coming out from Liverpool and making the circuit according to the cargo which offers. A ship comes out approximately every month, and calls are normally made at Cristobal.

Pacific terminal—The Rolph Mail Steamship Company's vessels call at Balboa in the coasting service which they maintain between San Francisco and Chilean ports, with a vessel each way every two months.

The Toyo Kisen Kaisha vessels in the service between the Orient and Valparaiso, via the West Coast, call at Balboa. The line runs from the Orient to San Francisco, thence via Salina Cruz and Balboa to Peruvian and Chilean ports, returning in reverse order, with a vessel every month in alternate directions.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending November 29, 1919.

				Cargo			
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.		
Fort Gaines. Achilles. Laura C. Hall. Newport Jamaica. Santa Paula Chile. Manavi. Cripple Greek.	A. E. Legancar. Panama Railroad Steamship Line. Pacific Metals Corporation Pacific Mail Steamship Company. Pacific Steam Navigation Co. W. R. Grace. Pacific Steam Navigation Co. Pacific Steam Navigation Co. United States Shipping Board	November 24. November 24. November 25. November 25. November 25. November 26. November 27.	November 24. In port November 25. November 25. November 25. November 25. November 28. November 28. November 29.	706 (*) 2 30 4	7ons. 40 157 13 (†) (†) (†) (†)		

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending November 29, 1919.

				Carg	30-
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
	W . G . II II		N 1 00	Tons.	Tons.
Senator	Harrison Steamship Line		November 23.		675
Orcus	United States Shipping Board	November 23.	November 25.		(†)
Tivives	United Fruit Company	November 24.	November 24.		(†)
Aysen	South American Steamship Line		November 24.		9541
Fort Gaines	Caribbean Steamship Company		November 24.		193
Laura C. Hall	Pacific Metals Corporation		November 25.		16
Jamaica	Pacific Steam Navigation Co		November 25.		7791
Puerto Rico	French Line		November 25.		200
Acajutla	Pacific Steam Navigation Co	November 24.	November 26.		(†)
The Lambs	United States Shipping Board	November 24.		8,248	(†)
Colon	Panama Railroad Steamship Line		November 26.		3,688
Salvador	Pacific Steam Navigation Co	.,,,	November 26.		1,091
Heredia	United Fruit Company	November 25.	November 27.	1,736	70
Turrialba	United Fruit Company	November 25.	November 27.		173
Zacapa	United Fruit Company		November 27.		280
Abangarez	United Fruit Company	November 27.	November 27.	1	3
Chile	Pacific Steam Navigation Co	November 27.		1,820	
Gen. O. H. Ernst	Panama Railroad Steamship Line		November 28.		3,484
Paul H. Harwood	Pan-Amer. Pet. and Transp. Co			10,000	
Middlebury	Panama Railroad Cattle Industry.	November 28.			
Manavi	Pacific Steam Navigation Co	November 28.	l <i></i>	662	
Volga	Pacific Steam Navigation Co	November 29.		295	
Santa Leonora*	United States Government			510	
Ucayali	Peruvian Steamship Line	November 29.			
Acuelo	United States Shipping Board	1	November 25.		(†)

*U.S. Army transport.

† No cargo laded.

Origin and Destination of Cargo Shipped through the Canal.

During the four months from the beginning of the current fiscal year to the end of October, 2,629,861 tons of cargo have passed through the Canal. Of this 1,184,902 tons went from Atlantic to Pacific and 1,444,949 from Pacific to Atlantic, the percentages of the two directions being approximately 45 and 55. A study has been made of the distribution of this cargo, and of the net tonnage of the ships carrying it, over the principal trade routes.

The heaviest movement of cargo has been from the Atlantic seaboard of the United States to the Far East, including Japan, China, and the Philippines. This has been 414,892 tons in the 4-month period, over 15.7 per cent of all cargo passing through the Canal and 35 per cent

of the cargo from Atlantic to Pacific.

The next in quantity of cargo has been the United States coastwise trade from Pacific to Atlantic, aggregating 398,667 tons, over 22 per cent of all Pacific-to-Atlantic movements and nearly 15.2 per cent of all cargo. Coastwise shipments from Atlantic to Pacific amounted to 75,889 tons, about 6.4 per cent of all cargo handled from Atlantic to Pacific and 2.9 per cent of all cargo in both directions.

The only other routing over which passed as much as 10 per cent of all the cargo was that from the west coast of North America to Europe.

These shipments were principally lumber, grain, and flour.

Shipments from Australia and New Zealand to Europe, principally Great Britain, were next in quantity, 229,954 tons, or 8.7 per cent of

all cargo.

Cargo from the United States to the west coast of South and Central America was next in order, 178,962 tons, 6.8 per cent of the grand total. Shipments from Europe direct to the west coast in the same time were 41,984 tons, or 1.6 per cent.

The traffic along the west coast has been divided into four classes: With the United States direct, with Europe direct, with Mexico, and to

and from the Atlantic terminus of the Canal. There was also in the period 1 shipment to Cuba, of 1,502 tons. The aggregate shipments to the west coast from Atlantic ports were 408,868 tons, about 15.5 per cent of all cargo, slightly less than the 414,892 tons passing from Atlantic ports of the United States to the Far East. Shipments from the west coast through the Canal, to all destinations, aggregated 368,571 tons, 14 per cent of all cargo in the period. Shipments to the west coast from the United States, 178,962 tons, exceeded those from Europe, 41,984 tons, but from the west coast to Europe the cargo of 165,121 tons exceeded by 42 per cent the 116,070 tons sent to the United States. From Mexico to the west coast the cargo was 139,000 tons of petroleum products, most of the vessels returning to Mexico in ballast. Transfer shipments from Cristobal to the west coast of South and Central America totaled 48,922 tons in the period, and cargo arriving at Cristobal from the west coast for transshipment in the same time amounted to 85,978 tons.

Details of the distribution of the traffic through the Canal in the 4-month period are presented in the accompanying table:

	Ves- sels.	Panama Canal net tonnage.	Cargo.	Percent- age or net ton- nage.	Percent- age of cargo.	Percent- age of all net tonnage.	Percent- age of all cargo.
Atlantic to Pacific. United States coastwise	11	49,197	75,889	4.531	6.405	2.090	2.885
land United States to Far East United States to west coast of South	23 57	127,342 261,769	137,862 414,892	11.734 24.112	11.635 35.015	5.411 11.122	5.242 15.776
America. Cristobal to west coast, North America.	51 9	143,399 15,467	178,962 13,810	13.208 1.424	15.103 1.165	6.093 .657	6.805 .525 1.860
Cristobal to west coast, South America Europe to Australia and New Zealand Europe to west coast, North America	69 18 8	$\begin{array}{c} 97,950 \\ 123,769 \\ 32,896 \end{array}$	$48,922 \\ 57,056 \\ 12,432$	9.022 11.400 3.030	4.129 4.815 1.049	4.162 5.259 1.398	2.169 .473
Mexico to west coast, South America Mexico to west coast, North America Mexico to west coast, South America	23 7 16	101,386 31.618 84,162	41,984 57,145 139,000	9.339 2.912 7,794	3.543 4.823 11,731	4.308 1.343 3,576	1.596 2.173 5,285
Cuba to west coast, South America Miscellaneous	6	6,911 9,764	6,948	. 636	. 586	.294	. 264
Total	300	1,085,630	1,184,902	100.000	100.000	46.128	45.053
Pacific to Atlantic. United States coastwise	81	283,644	398,667	22.377	27.590	12.052	15.159
United States	3 1 14	14,295 $1,454$ $62,046$	18,182 2,725 94,979	1.127 .115 4.895	1.258 .188 6.573	.607 .062 2.636	. 691 . 104 3. 611
West coast, South America to east coast United States. Australia and New Zealand to Europe	34 37	88,439 243,231	116,070 229,954	6.977	8.033 15.914	3.758 10.335	4.413 8.744
Far East to Europe	30 97	5,797 115,025 206,303	6,636 165,121 290,321	9.074 16.275	.459 11.427 20.092	.246 4.887 8.766	.253 6.278 11,039
West coast, North America to Europe West coast, South America to Cristobal. West coast, North America to Cristobal.	71 8	101,428 13,889	85,978 8,984	8.002 1.096	5.950 .622	4.309	3.269
West coast, South America to Mexico West coast, North America to Mexico West coast, South America to Cuba	1	75,735 23,067 1,502	(*) (*) 2,357	5.975 1.819 .118	.163	.063	.093
West coast, North America to Cuba Miscellaneous	9	8,156 23,564	9.884 15,091	1 859	1.044	1.001	.376
Total	412	1,267,575	1,444,949	100.000	100.000	53,856	54.946
Grand total	712	2,353,205	2,629,861	J		. 100.000	100.000

*Ballast.

Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

Canal, Washington, D. C."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington." Mail for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight, November 29, 1919,

THROUGH THE CANAL-ATLANTIC TO PACIFIC.

.Canal age	Net	4, 441 650 650 650 650 660 660 660 660 660 660
PanamaCana tonnage	Gross	
Tons Gr		3,250, 2,866, 6,782, 5966, 6,782, 5966, 6,782, 5966, 6,782, 5966, 6,782, 5967, 6,782, 5,794, 5,794, 5,865, 5,700, 6,221, 7,000, 6,221, 7,404, 1,744, 5,667, 6,784, 5,744, 5,865, 6,744, 5,865, 6,744, 5,865, 6,744, 5,865, 6,744, 6,744, 5,865, 6,744,
-	Cargo	General Coal General
For		Taleahuano. San Diego. Tumaco. Taleahuano. Balboa. Valparaiso. Panama. Galea Colosa. Salavery. Aufofagasta. Aufofagasta. Aufofagasta. Aufofagasta. Valparaiso. Champerico. Manta. Aufofagasta. Taltal. Panama. Taltal. Panama. Hobart. Bisbourne. Taltal. Bisbourne. Taltal. Basan Diego. San Diego. San Diego. San Diego. San Diego. Balba. Basan Diego. Balba. Coronel.
	From	New York. New York. New York. Norfolk. Cristobal. Cristobal. New York. Baltimore. Baltimore. Clolm. Cristobal. New York. Baltimore. Clolm. New York. Britham. Norfolk. London. Norfolk. London. New York. Britham. Norfolk. London. New York. Britham. New York. Britham. Norfolk. London. New York. Britham. Br
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	Nationality	American American American Chilean Panaman British British American American British American British American British American British American British American British British American British
Cleared for sea	TuoH	23. 12. 13. 13. 14. 14. 14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15
	Day	24.4 24.8 25.6 25.8 25.8 25.8 25.8 25.8 25.8 25.8 25.8
Completed	Day	88888888888888888888888888888888888888
7	TuoH	10 10 10 10 10 10 10 10
Enterec	Day	888888888888888888888888888888888888888
Arrived at port	TuoH	18
Ship at Day		Lake Glasco

(a) Sloop. (b) Schooner. (c) Transport. (d) Destroyer. (e) Tug.

Nov. 28..... Newport....... Pacific Mail Steamship Co...... San Francisco.

4,001 775 776 706 6,796 6,796 6,796 706 706 708 708 708 708 708 708 708 708 708 708	1
881 1.191 499 5,285 5,298 4,001 882 1.277 882 1.277 883 1.277 883 1.279 8.20 2.232 2.088 8.80 6,438 4,391 8.80 6,438 4,391 8.80 6,438 4,391 8.80 6,438 4,391 8.80 6,438 4,391 8.80 6,438 4,391 8.80 6,438 4,391 8.80 6,438 4,391 8.80 6,438 4,391 8.80 6,438 4,391 8.80 6,438 4,391 8.80 6,438 4,391 8.80 6,438 4,391 8.80 6,438 4,391 8.80 6,438 4,391 8.80 6,438 4,391 8.80 6,438 6,291 8.80 6,438	
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Queenstown(a) Spelter, fir lum. Gothenberg General. W. Hartlepool. Fir ties. Chistobal Ivory nus, rub. Liverpool General Hamptool General Hamptool General Hamptoon Rals UnitedKing(a) Sugar, nitrate. Santander Sintander General Tamptoo Nitrate of soda Nitrate of soda Tamptool Chistobal Chistobal Oristobal Mirrate Chistobal Mirrate Mew York Chistobal Mirrate Chistobal Mirrate Mirrate Mew York Chistobal Mirrate Mirrate Mew York General And Mirrate Mirra	
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	Tow	r or	Galveston and wayports. New York. Puerto Colombia. Bluefields. New York and Haiti. Pensacola. New York via Limon. New York and Kingston. Colombian ports.			
*DEPARTURES	-	Line	Harrison Steamship Line United Print Company Frenel Line United States Shipping Board United States Shipping Board United States Shipping Board United Fruit Company		*DEPARTURES	
		Vessels	Senator Tivives Puerto Rico Acuelo Colon Trillamook Heredoi Arurialba Abangarez Gen, O. H. Ernst.			
		Date	Nov. 23. Nov. 24. Nov. 25. Nov. 26. Nov. 27. Nov. 27. Nov. 27. Nov. 27. Nov. 27.	PORT OF BALBOA.	=	
		From	Port Linnon. New Orleans. New York via Habana. New York and Kingston. Iligh seas for repairs. Colombian ports. Tampico. Cartagena. New Orleans.	PORT OF		
	TARRIVALS	Line	United Fruit Company United Fruit Company United Fruit Company United Fruit Company United Stutes Shipping Board United Stutes Shipping Board United Stutes Shipping Board United States Army United States Army United States Army United States Army		** PPIVALS	ALLA ALLA
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		Data	Nov. 25 Nov. 25 Nov. 25 Nov. 26 Nov. 26 Nov. 28 Nov. 28 Nov. 28			

(j) U. S. Army Transport.

*Other than ships passing through the Canal.

Nov. 25.... Newport........ Pacific Mail Steamship Co....... San Francisco.

Shiploads of Canned Pineapples from Honolulu.

Two whole cargoes of canned pineapples, shipped from Honolulu, have passed through the Canal this month. The first was 2,450 tons on the steamship Deva, bound for New York, and the second 4,619 tons, on the Calvert, also bound for New York. In October there was 1 whole cargo of canned pineapples, 3,115 tons, from Honolulu for Boston, on the steamship Glymont.

Bond Conversion.

The Liberty Loan Committee advises that blank forms to be filled out for the exchange and conversion of Liberty Bonds of the first and second issues will be ready for distribution during the coming week. The new bonds bearing the higher rate of interest and with all subsequent coupons attached will not be ready for issue by the Treasury Department at Washington until after March 1, 1920.

Appreciation of Courtesies to Troops.

The Acting Prime Minister of New Zealand has transmitted through official channels thanks of the Dominion for the hospitality extended by the communities at the American ports at which drafts of New Zealand troops have called. His letter follows:

> DOMINION OF NEW ZEALAND, PRIME MINISTER'S OFFICE, WELLINGTON, August 6, 1919.

DEAR SIR: Now that the demobilization of our Expeditionary Force is approaching completion, and the trooping period is drawing to a close, I wish to express on behalf of the Government and the people of the Dominion our deep gratefulness for the hospitality extended by the authorities and communities of the American ports at which drafts of our troops have called when en route to the front or returning to the Dominion. In this connection I may mention Newport News, Norfolk (Va.), Richmond and the Panama Canal Zone. In the case of the latter, I have had extreme pleasure in conveying through His Britanic Majesty's Consul, Colon, our heartfelt appreciation of the hospitality and courtesies extended to our troops when passing through the Canal by the authorities and American citizens, with a request that same might be fully conveyed to all concerned.

I may say that the generosity and kindness of the communities mentioned to our troops has been deeply valued by them, and has been the subject of appreciative comment in the voyage reports of the drafts concerned. The most friendly receptions accorded, and kindness and courtesies extended to our soldiers have very materially relieved the tedium of their long voyage from and to the Dominion, and the remembrance of same will remain with our men long after their recollection of the rigors of

active service has become dimmed by time.

I shall, therefore, be grateful if you will kindly convey to the authorities and citizens of the cities indicated our heartfelt thanks and lasting gratitude.

We regret earnestly that no opportunity has occurred here during the war when we could have reciprocated somewhat the kindness of the American public to our boys, but, no doubt, some occasion will come to pass in the future when the opportunity will present itself to enable us to show our appreciation of the sailor sons of our great Ally, whose Naval Forces have played a gallant part in the "policing" of the seas, and ensuring safe transport for our troops.

I have the honor to be, Sir,

Your obedient servant,

(Signed) J. ALLEN, Acting Prime Minister.

THE CONSUL-GENERAL, UNITED STATES OF AMERICA, Auckland. Whole Cargo of Sulphur.

Six thousand nine hundred tons of sulphur made up the cargo of the steamship *Mount Berwyn*, passing through the Canal on November 2, on the way from Sabine, Texas, to Fremantle, Australia, by way of Adelaide. This is the first whole cargo of sulphur to have passed through the Canal.

Increased Charges for Moving Pictures.

The Governor has approved the following prices to be charged for moving pictures in the Panama Canal clubhouses, effective December 1:

Gold clubhouses—Children under 12 years of age, 10 cents; all others, 15 cents. Silver clubhouses—Children and adults, 10 cents.

These increases are made on account of the increased prices which are being charged for films.

Automobile and Motorcycle License Tags.

Automobile and motorcycle license tags for 1920 for personal and commercial vehicles are now being issued by the Division of Civil Affairs, room 301, Administration Building, Balboa Heights. The official automobile and motorcycle licenses in use at the present time need not be renewed.

Annual license rates for residents of the Canal Zone are as follows: Automobile for personal use, \$5; automobile for hire, 29-horsepower or under, \$20; automobile for hire, over 29-horsepower, \$30; truck or omnibus, over 3 tons, \$40; motorcycle, \$2. Residents of Panama or Colon (which includes Colon Beach and New Cristobal), must first obtain licenses from their respective municipalities and upon presentation of the proper receipts from Colon or Panama will be accorded the special reciprocal rates of \$1 for automobiles for personal use and motorcycles; \$12.50 for automobiles for hire; and \$15 for trucks and omnibuses. Receipts must be presented covering the payment of fees for the current month to Colon or Panama before a reciprocal license can be renewed.

When applying for 1920 licenses the applicant should be prepared to furnish the number of the 1919 Canal Zone license, or, in the case of a new car, the name of the car and its engine number as well as the free entry number under which the car was imported. If a license is desired in the name of a person other than the last owner of record in the license bureau, the applicant must present evidence of the transfer of ownership from the last licensee to himself. When a car which has been imported on a free entry is transferred to a nonemployee or is to be licensed as a commercial vehicle, the receipt for the payment of customs duties to the Government of Panama

must be presented.

Remittance for license fees should be drawn in favor of the Collector, The Panama Canal, and forwarded to the Division of Civil Affairs. The post-office address of the applicant should always be given.

Hotel Aspinwall Launch Schedule.

Following is the schedule of regular launch service between Balboa and the Hotel Aspinwall on Taboga Island:

Daily.										
Leave Taboga	7.00 a. m.									
Leave Port Captain's boat landing, near dock 19	9.40 a. m.									
Sundays and holidays,										
Leave dock 19, Balboa	9.40 a. m.									
Leave Taboga	11.00 a. m.									
Leave dock 19, Balboa	4.30 p. m.									
Leave Taboga	6.00 p. m.									
Saturdays and days preceding holidays.										
Leave Balboa	6.00 p. m.									
Leave dock 19, Balboa	9.40 a. m.									
Leave Taboga returning										
Returning from Taboga the following day	7.30 a. m.									
Fares (each way)—Employees, 35 cents; nonemployees, 60 cents;	children of									

employees over 6 and under 12 years old, 25 cents; of nonemployees, 40 cents.

Class in Cooking.

A night school class in cooking will be offered at the Balboa household arts building on Mondays or Wednesdays from 7 to 9 p. m. for women of Balboa and Ancon, if there is a sufficient demand for the A tuition fee of \$4 per month will be payable in advance. Those interested should advise the high school principal, telephone 48, Balboa; post office, Balboa.

Private Telephones.

Notice was published in The Panama Canal Record of October 29, 1919, that no applications for private telephones would be accepted until further notice, on account of exhausted stock of telephone instruments.

The Electrical Division is now in receipt of a limited number of instruments, and applications for privâte telephones will be accepted. Applications should be made in writing to the Electrical Engineer, Balboa Heights, giving metal check number, post-office address, and house address.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286). Age limits do not apply to persons entitled to preference because of military or naval service:

Laboratory assistant (male); \$5.20 and \$6 a day; January 7 and 8, February 4 and 5, and March 3 and 4, 1920; No. 2; form 1312; age, 20 years but not 35 years.

Scientific assistant (male and female); \$1,320 to \$1,620 a year; January 7 and 8, 1920; No. 3;

form 1312; age, 20 years and over.

form 1312; age, 20 years and over.

Associate physicist qualified in physical metallurgy (male); \$2,000 to \$2,800 a year; No. 1492amended; form 1312; age, 22 years but not 45 years.†

Assistant physicist qualified in physical metallurgy (male and female); \$1,400 to \$1,800 a year; No. 1492amended; form 1312; age, 22 years but not 45 years.†

Investigator in marketing fruits and vegetables (male); \$1,800 to \$2,760 a year; No. 1985-supplemental; closed November 18, 1919.

Blue printer (male and female); \$4.80 a day; No. 441-amended; supplemental.†

Assistant biologist qualified in economic ornithology (male and female); \$1,440 to \$1,800 a year;

January 7, 1920; No. 8; form 1312; age, under 45 years.

Assistant for fishery food laboratory (male); \$2,000 to \$2,400 a year; December 25, 1919; No. 556;

form 2118; ages, no limits.*

Field and laboratory aid in plant nutrition (male and female); \$1,200 a year; January 7, 1920; No. 9; form 1312; age 20 years but not 45 years.

Inspector of gyroscopic compasses (male and female); \$7.04 a day; December 23, 1919; No. 562;

form 1312; age, 20 years and over.*

Laboratory helper (male and female); \$900 to \$1,200 a year; December 23, 1919; No. 570; form

Laboratory helper (male and female); \$900 to \$1,200 a year; December 23, 1919; No. 570; form 1312; age, 18 years and over.*

1512; age, 18 years and over.* Mechanician qualified as scale repairer (male and female); \$5 a day plus 10 per cent; December 16, 1919; No. 563; form 1800; age, 18 years and over.*

Plant pathologist for small fruit disease investigations (male); \$2,520 a year; December 23, 1919; No. 555; form 2118; age, 25 years but not 50 years.*

Radio operator (male and female); \$960 to \$1,200 a year with \$1 a day additional for subsistence; December 23, 1919; No. 507-amended; form 1512; age, 21 years but not 40 years.*

Shot firer (male and female); \$840 a year; December 23, 1919; No. 567; form 1800; age, 23 years but not 50 years.*

but not 50 years.*

Specialist in land-grant college statistics (male); \$1,800 a year; December 16, 1919; No. 554; form 2118; age, under 50 years.*
Stacker operator (male and female); \$1,440 a year; December 23, 1919; No. 564; form 1312; age, over 20 years.*

age, over 20 years.*

Superintendent of forest pathological field station (male and female); \$1,440 to \$1,620 a year; January 7, 1920; No. 7; form 1312; age, 21 years but not 45 years.

Graphotype operator (male and female); \$660 to \$1,200 a year; December 14, 1919, and January 11, 1920; No. 63-amended; form 304; age, 18 years and over.

F-1 addressograph operator (male and female); \$900 to \$1,200 a year; December 14, 1919, and January 11, 1920; No. 63-amended; form 304; age, 18 years and over.

Automatic 3 Addressograph operator (male and female); \$1,200 to \$1,600 a year; December 14, 1919, and January 11, 1920; No. 63-amended; form 304; age, 18 years and over.

Mimeograph operator (male and female); \$720 to \$1,200 a year; December 14, 1919, and January 11, 1920; No. 63-amended; form 304; age, 18 years and over.

Proof reader (male and female); \$900 to \$1,200 a year; December 14, 1919, and January 11, 1920; No. 63-amended; form 304; age, 18 years and over.

Junior gas chemist (male and female); \$1,500 a year; December 30, 1919; form 1312; age, under 40 years.*

years.*

Structural steel inspector (male and female); \$7.04 a day; December 23, 1919; No. 566; form 1312; age, 25 years and over.*

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

†Nonassembled. Applications will be received at any time until further notice.

Deceased Employee.

The estate of the following deceased employee of The Panama Canal is now in process of settlement, and any claims against this estate, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due him, should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. This name will be published but once:

Name.	Check No. Native of—		Isthmian residence.	Employed by—	Date of death.		
Harry Bryan	26938	Jamaica	Colon	Mechanical Division	November 18, 1919.		

Schedule of Official Jitney Service.

Following is the schedule of the official jitney plying between Balboa shops and the Ancon police station, carrying employees in the conduct of official business, upon presentation of passes issued by the Chief Quartermaster, or of the "special pass" issued by the Governor:

FROM ANCON POLICE STATION TO BALBOA SHOPS. Police Station..... Leave on the hour and half hour. Administration Building..... Leave 7 minutes and 37 minutes after the hour

Balboa Commissary	Leave 10 minutes and 40 minutes after the hour
Balboa Shops	Arrive 15 minutes and 45 minutes after the hour
FROM BALBOA SHOPS	TO ANCON POLICE STATION.
Balboa Shops.	Leave 15 minutes and 45 minutes after the hoor
	Leave 18 minutes and 45 minutes after the hour
Balhoa Commissary	Leave 20 minutes and 50 minutes after the hour.
Administration Building	I earn 25 minutes and 55 minutes after the hour

Ancon Police Station....... Arrive on the hour and half hour

Official Circulars.

Accountable Official.

THE PANAMA CANAL. ACCOUNTING DEPARTMENT,

BALBOA HEIGHTS, C. Z., November 28, 1919. CIRCULAR No. 220:

Effective November 24, 1919, Mr. L. A. Hel-likson is designated an accountable official of the Marine Division, and as such will account for all nonexpendable property in use by the Captain of the Port, Balboa.

Auditor, The Panama Canal. CHESTER HARDING,

Governor.

Employees' Freight Shipments on Transports.

THE PANAMA CANAL, EXECUTIVE OFFICE

BALBOA HEIGHTS, C. Z., November 28, 1919. To all concerned—The Department Transporta-

tion Officer at Ancon advises that in the past considerable annoyance has been experienced on account of employees waiting until shortly before sailing time to attend to their freight shipments on Army transports, and it is requested that in the future all such shipments be handled in accordance with the following procedure.

Whenever employees of The Panama Canal or Panama Railroad have been authorized by the Transportation Officer, Panama Canal Department, Ancon, to ship freight from the 1sthmus to the United States on Army transports on which they intend to travel, it is necessary that such freight shipments be delivered to Capt. D. L. Decker, tion Officer at Ancon advises that in the past

Port Transportation Officer, Cristobal, together with two copies of Panama Railroad bill of lading and one copy of Customs clearance not later than noon of the day before the sailing date of the transport on which the freight is to be shipped.

C. A. MCILVAINE. Executive Secretary.

Transportation of Army and Navy Laborers on Fort Randolph Trains.

PANAMA RAILROAD COMPANY, OFFICE OF MASTER OF TRANSPORTATION, BALBOA HEIGHTS, C. Z., November 28, 1919. CIRCULAR No. 1428;

To conductors-Army and Navy laborers will be carried without transportation in the second-class labor coach on Fort Randolph trains Nos. class fabor coach on Fort Randoph trains Nos. 51 and 58 on presentation of identification card giving the laborer's name and stating that the bearer is entitled to a round-trip between Cristobal and Fort Randolph once each day and only on trains Nos. 51 and 58.

W. F. FOSTER, Master of Transportation.

Joint Commission.

Award.

In the matter of the claim of Dolores Icaza^{*}de Arias, for property designated as Punta Mala, award No. 269, in docket No. 1470, November 25, 1919—An award is hereby made against the United States of America in the sum of \$1.479.53, United States currency, together with interest thereon at the rate of 6 per centum per annum from December 5, 1912, until payment or tender.

of payment of this award is made, for all right, title, and interest that Dolores Icaza de Arias, or Alberto B. de Obarrio, or Elisa A. de Diaz, or Isabel Diaz de Jimenez, or Domingo Diaz A., or Isabel Diaz de Jimenez, or Domingo Diaz A., or any other person or persons, may possess or may have possessed in or to 5,479% square meters of the Punta Mala estate described in claim docket No. 1470, which portion was excluded from consideration at the time the claim for the Punta Mala tract, docket No. 1470, was tried, this award to include any and all damages sustained by the owner or owners of this property on account of the expropriation thereof by the United States of America.

It being made to appear to the Joint Commis-It being made to appear to the Joint Commission that there is an action pending and undetermined in the District Court of the Canal Zone, Balboa Division, involving the respective claims of the said Dolores Icaza de Arias, and of Alberto B. de Obarrio, Elisa A. de Diaz, Isabel Diaz de Jimenez, and Domingo Diaz A., in and to the lands involved herein, or the value thereof, the amount of this award is hereby ordered to be deposited in the District Court of the Canal Zone, Balboa Division, to await the determination of that court as to its disposition.

JORGE E. BOYD, BURT NEW, GEORGE A. CONNOLLY, R. J. ALFARO, Commissioners.

Misdirected Letters.

Balboa Heights, C. Z., December 1, 1919.

The following insufficiently addressed letters have been received in the office of the Director of Posts, and may be obtained upon request of the addressees. Request may be made by telephone, calling No. 182, Balboa:

Anderson, J., Box 237 Mangnall, John N. Anderson, J., Box 237
Batte, Leonard
Blanchard, Leo
Bowman, S. S.
Crawford, Jesse F.
Davis, H. A.
Deelille, William R.
Delavergne, Miss A. M.
Drake, Henry Miller, Capt. Sterling P. Montgomery, Miss Margaret Revit, Mrs. V. B. Sterling, Mrs. G. H. Sturges, Mrs. M. L., Box 634 Drake, Henry Hensan, C. P. Herlihy, Mrs. G. H. Howard, Capt. G. E. L. Swanson, Frank Whitney, C. Dayton, Box Wiseman, Samuel C. L. McKinney, Mrs. G. L.

Sale of Twelve Second-hand Wicker Parlor Car Chairs.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10 a.m., December 10, 1919, and then opened, for the purchase of the above-mentioned chairs. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

Sale of Dental Equipment Formerly Used in Canal Dental Office over Ancon Dispensary.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10 a.m., December 11, 1919, and then opened, for the purchase of a complete dental set located at Ancon dispensary. A few of the more important items are as follows: 1 bench, dental; 1 cabinet, instrument; 1 chair, dental, "Diamond;" 1 compressor, air, electric, with tank; 1 cuspidor, fountain; 1 engine,

electric; 1 lathe, electric; 1 sterilizer, electric. A complete list of all items for sale and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

Current Prices on Coal, Fuel Oil, and Beet.

Coal is being supplied to steamships, including warships of all nations, delivered and trimmed in bunkers, at \$13.50 per ton of 2,240 pounds at Cristobal and \$15.50 at Balboa. For ships in transit through the Canal, which are directed to take coal at Balboa, for the convenience of The Panama Canal. \$13.50 per ton at Balboa. For ships taking less than carload lots from plants or less than 25 tons from lighers, the price is \$15.50. less than 25 tons from lighters, the price is \$15 per ton at Cristobal, \$17 at Balboa.

Crude fuel oil is delivered to vessels at either Cristobal or Balboa for \$1.50 per barrel of 42

gallons.

Diesel oil is not sold by The Panama Canal, but may be obtained from private concerns at approximately \$3 per barrel. Cable arrangement should be made in advance of arrival of vessel.

The following are current prices on fresh beef sold from the cold storage plant of the Canal. Prices quoted are United States currency, per

pound net:

Beef hinds, 19 cents; beef fores, 14 cents; beef ribs, entire set, 20 cents; short loins, 25 cents. This beef is from Colombian cattle, slaughtered on the Isthmus.

Additions to Commissary Stock. Dun Coods Section

Dry Goods Section.	
Blouses, middy, ea	\$2.80
Boxes, soap, ea	. 23
Brushes, nail, ea	.10
Chemise, envelope, ea	4.00
Chemise, envelope, ea	1.30
Chemise, envelope, ea	1.50
Kimonos, crepe, cotton, plain, ea	1.95
Kimonos, cloth, embroidered cotton terry,	
ea	3,10
Kimonos, cloth, plain cotton terry, ea	3.30
Nightgowns ladies' ea.	4.35
Nightgowns, ladies', ea	2.70
Nightgowns, ladies', ea	4.00
Sheeting, rubber, white, double coated, 27",	
yd	.67
Skirts, children's, ea	2.50
Skirts, children's, ea	2,20
Soap, nursery, Williams's, cake	.09
Soap, oatmeal, Williams's, cake	.13
Soap, Jersey cream, Williams's, cake	.13
Soap, pine tar, Williams's, cake	.11
Soap, lilac, Williams's, cake	.09
Soap, sandalwood, Williams's, cake	.09
Soap, English lilac, Williams's, cake	.14
Soap, cucumber cream, Williams's, cake	.11
Soap, almond flower, Williams's, cake	.11
Soap, Dream Rose, Williams's, cake	,09
Soap, Carnation, Williams's, cake	.09
Soap, honey, Williams's, cake	.11
Soap, violet, glycerine, cake	,09
Soap, sulphur, Jergen's, cake	.09
Soap, carbolic, cake	.09
Stationery:	
Albums, post card, ea	.38
Books, memo., ea	,15
Books, memo. No. 3, ea	.04
Envelopes, pkg	,03
Sticks, walking, ea	,67
Vaseline, jar	,06

COMMISSARY NOTES.

Cigars.

Jamaican cigars, in special gift boxes for the Christmas trade, are now obtainable in the line stores.

Beds and Bed Springs.

Double beds and springs, which have been out of stock for some time, are again obtainable in the line commissaries.

COMMISSARY NOTES.

Porch Shades.

A shipment of ventilating porch shades, in two sizes, at \$5.15 and \$6.85, has recently been received and forwarded to the line stores.

Chinaware.

Notice of another slight increase in price has been received from the manufacturers of Minton chinaware.

Crash Shortage.

The textile company from which the Commissary Division purchases a large quantity of crash has written that it will not be possible to fill our orders for some time. Their mills have a capacity of about 75,000 pieces per annum but prevailing conditions have reduced their output greatly and they can not supply any material for the Canal Zone for several months to come.

Hand Bags.

The Commissary Division has recently received and distributed to the line stores a shipment of leather hand bags. These range in prices from \$1.35 to \$4 and although the majority of them are of black leather, there are some of blue, gray, tan, and brown. All are silk lined, some being fitted with small mirrors. They are very good values and are meeting with ready sale.

Ladies' Blouses.

Another shipment of georgette and crepe de chine blouses, including some of the latest models, has been received by the Commissary Division. These comprise blue, gray, white, and flesh georgette blouses, some elaborately beaded, some embroidered, and others trimmed with lace edged frills, at \$7.45, and tailored crepe de chine, embroidered crepe de chine, and georgette blouses in white and flesh, at \$6.30.

Candy.

According to a letter recently received from the commissary purchasing agent, chocolate cream cakes now on order can not be supplied at present, the manufacturers advising that due to the Federal sugar regulations they have discontinued the manufacture of this candy. Shipments will be resumed, however, when they again manufacture them. There will also be some delay in the shipments of milk chocolate now on order.

Leather Novelties.

were men's black leather tourist cases, leather lined, fitted with comb, brush, toothbrush holder, etc., at \$5.35; women's black leather tourist cases, leather lined, with the usual fittings, at \$6.05; and black leather portfolios, fitted with calendar, writing pad, and small memorandum book, at \$2. Any of the above would make desirable Christmas gifts. In a shipment of leather goods recently received by the Commissary Division

Books.

Shipments of books for the Christmas trade have been made to the line commissaries. Included in these consignments were gift books of almost every description and a wide range of children's books.

Books received:

Books received:

"The Moon and Sixpence," by W. Somerset Maughm; "Ramsey Milholland," by Booth Tarkington; "The Inheritors," by Joseph Conrad and Ford M. Hueffer (leather edition); "The Young Visiters," by Dalsy Ashford; "Tales of Fishes," by Zane Grey; "Ireland's Fight for Freedom," by George Creel; "The Squire's Daughter" and "The Eldest Son," by Archibald Marshall; "Opportunities in the Newspaper Business," by James Melvin Lee; "A Tramp Abroad" and "Huckleberry Finn," by Mark Twain; "An American Idyll," by Cornelia Stratton Parker; Kipling's Prose Works; "The Passionate Pilgrim," by Samuel Merwin; "Poems," by Maurice Maeterlinck; "A Guide to the West Indies and Panama," by F. A. Ober; "Their Mutual Child," by P. G. Wodehouse; "Polished Ebony," by O. R. Cohen; "The Secret of the Tower," by Anthony Hope; "Spriggles," by E. Lawrence Dudley; "The Taker," by Daniel Carson Goodman; "The Groper," by Henry G. Aiken; "Tarzan of the Apes" and "Tarzan and the Jewels of Opar," by Edgar Rice Burroughs; "More E. K. Means," by the author of "E. K. Means;" "Yellow Men Sleep," by Jermey Lane; "The Lion's Mouse," C. N. and A. M. Williamson; "Squaw Point," by Arland D. Weeks; "A Woman's Woman," by Nalbro'Bartley; "The Happy End," by Joseph Hergesheimer; "The Little Moment of Happiness," by C. B. Kelland; "Old Christmas and Bracebridge Hall," from "The Sketch Book" of Washington Irving.

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THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

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Volume XIII. Balboa Heights, C. Z., December 10, 1919. No. 17.

CANAL WORK IN OCTOBER.

The following is the report of the Governor to the Secretary of War, of Canal work in the month of October, 1919:

BALBOA HEIGHTS, C. Z., November 20, 1919.

The Honorable, the Secretary of War, Washington, D. C.

SIR: I have the honor to submit the following report of The Panama Canal for the month of October, 1919.

CANAL TRAFFIC.

Traffic exceeded that of any previous month in net tonnage of commercial ships, and tolls collected, but not in number of ships or tonnage of cargo. ocean-going commercial vessels passing through the Canal in October was 196, exclusive of 17 United States Government vessels, as follows: One cruiser, 3 destroyers, 3 tugs, 1 mine-sweeper, 2 transports, 1 collier, 2 scout patrols, and 3 merchant ships with coal for the Navy, from Atlantic to Pacific; and 1 subchaser, from Pacific to Atlantic. The total number of ocean-going vessels was 213, in addition to which 1 launch went from Pacific to Atlantic.

Classifications of the traffic are shown in the following tabulations. The net tonnage of 196 commercial ships aggregated 670,100 tons, Panama Canal measurement, and was 83,914 tons more than that of commercial ships passing through the Canal in September, when 170 ships of 586,186 tons made the transit. Their registered gross tonnage was 873,006 tons, and their registered net tonnage was 551,825 tons. The cargo carried totaled 705,881 tons of 2,240 pounds, and was 67,611 tons more than that handled in September. Of that in October, 1919, 7,271 tons were carried as deck load. Ships of 12 different nationalities were included in the month's traffic.

The United States coastwise trade was made up of 19 vessels, aggregating 62,082 tons, Panama Canal measurement, and carried 94,517 tons of cargo. From Atlantic to Pacific, 2 ships with a total net tonnage of 6,651 tons, Panama Canal measurement, made the transit, carrying 9,749 tons of cargo. From the Pacific to the Atlantic there were 17 vessels of 55,431 net tons, Panama Canal measurement, carrying

84,768 tons of cargo.

The United States Shipping Board operated all of the westbound ships in the coastwise trade, with a net tonnage of 6,661 tons, Panama Canal measurement, carrying 9,749 tons of cargo, and 16 of the 17 vessels eastbound. The net tonnage of the 16 ships from Pacific to Atlantic aggregated 52,583 tons, Panama Canal measurement, and their cargo amounted to 80,568 tons.

PRINCIPAL COMMODITIES.

The bulk shipments from Atlantic to Pacific were: Crude oil, 25,928 tons, of which 8,500 tons were from Tampico to Balboa, 7,928 tons from Tampico to Pisagua, and 9,500 tons from Puerto Lobos to Antofagasta; petroleum, 21,315 tons, of which 9,000 tons were from Puerto Lobos to Tocopilla, 6,784 tons from Beaumont to Shanghai, and 5,531 tons from Puerto Lobos to Taltal; case oil, 12,920 tons, of which 6,020 tons were from New York to Honolulu, and 6,900 tons from New York to Brisbane; fuel oil, 21,080 tons from Puerto Lobos, of which 12,000 tons were consigned to Antofagasta and 9,080 tons to San Francisco; coal, 12,017 tons from Norfolk to Balboa; mixed cargoes, 55,694 tons, of which 2,630 tons were from Baltimore to Balboa; mixed cargoes, 55,694 tons, of which 2,630 tons were from Baltimore to San Francisco, 3,370 tons from Baltimore to Guayacan, 4,967 tons from England to Corral, 208 tons from New York to Talciti, 7,521 tons from New York to Valparaiso, 6,319 tons from New York to Talcahuano, 8,000 tons from New York to Honolulu, 5,879 tons from New York to Kobe, 7,300 tons from New York to Shanghai, 5,300 tons from New Orleans to Tacoma, and 4,200 tons from Savannah to Honolulu; 39 cargoes described as "general" amounted to 113,223 tons.

From Pacific to Atlantic the principal commodities were: Nitrate of soda, 75,927 tons in 14 whole cargoes, from Chilean ports, 11,200 tons to Halifax, 10,970 tons to Belgian ports, 8,575 tons to La Pallice, 2,357 tons to Havre, 4,150 tons to Nantes,

8,426 tons to Dunkirk, 7,350 tons to Rotterdam, 2,875 tons to Valencia, 7,700 tons to Savannah, 7,509 tons to Wilmington, N. C., and 4,815 tons to New Orleans; flour, in 10 whole cargoes, 67,577 tons, from Pacific ports in the United States to New York; lumber, 15 whole cargoes, aggregating 30,172 tons; 11 ships carrying 22,831 tons for Great Britain, 2 ships carrying 3,629 tons to Atlantic ports of the United States, and 2 ships carrying 3,712 tons to Cuba, all from the west coast of North America; railroad ties, of which 10 whole cargoes passed through the Canal, aggregating 18,094 tons, 7 ships carrying 11,847 tons for Great Britain, and 3 ships carrying 6,247 tons to Atlantic ports of the United States, from the west coast of the United States; sugar, 2 whole cargoes, aggregating 10,503 tons, of which 3,603 tons were from Callao, Peru, to Havre, France, and 6,900 tons from Salaverry to Queenstown; lubricating oil, 1 whole cargo, 4,200 tons from San Francisco to Philadelphia; canned pineapples, 3,115 tons from Hawaii to Boston; copra, 799 tons from Levuka to Norfolk. Twenty-six cargoes, containing several commodities in each, and described as "mixed," aggregated 103,321 tons, and 32 contained the variety designated as "general," amounting to 122,038 tons.

Ships in ballast numbered 1 from Atlantic, with a net tonnage of 2,011 tons, Panama Canal measurement, and 10 from Pacific to Atlantic, of 51,715 net tons, a total of 11

ships of 53,726 net tons.

LATIN-AMERICAN TRAFFIC.

Commercial vessels passing through the Canal on their way to the west coast of 'Central and South America during October, were, by nationalities, as follows:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
British Chilean Peruvian Norwegian Dutch Spanish Swedish Ltalian United States.	17 2 2 3 2 3 1 1 1	60,418 8,303 7,922 20,587 13,368 8,613 3,802 5,283 63,253	35,823 6,086 3,941 12,942 8,645 5,376 2,839 3,189 39,986	44,263 6,043 5,097 16,467 11,532 6,442 3,969 3,760 46,413	Tons. 30,364 679 1,930 14,531 300 1,500 920 67,163
Total	44	191.549	118,827	143,996	117,387

Of the 44 vessels, 17 with 10,549 tons of cargo originated at the Atlantic terminus of the Canal; 9 with 42,143 tons came from United States ports; 2 with 14,531 tons of petroleum, from Tampico; 3, with 25,928 tons of crude oil, from Tampico, and 1, with 12,000 tons of fuel oil, from Puerto Lobos to Antofagasta, 10, with general cargo from Europe, amounting to 12,236 tons, and 2, with no cargo, from Habana. Shipments from the west coast of Central and South America through the Canal during October were carried by 56 vessels. Nineteen were bound for Europe, with 116 301 tons of cargo from Chilean and Peruvian ports; 12 with 41,402 tons were

Shipments from the west coast of Central and South America through the Canal during October were carried by 56 vessels. Nineteen were bound for Europe, with 116,301 tons of cargo from Chilean and Peruvian ports; 12 with 41,402 tons were bound for the east coast of the United States; 5 in ballast were bound for Tampico; 1, with 2,357 tons of nitrate, from Taltal to Habana; and 19 completed the voyage at the Atlantic terminus of the Canal, discharging 2,361 tons of mixed cargo and 21,511 tons of general cargo.

By nationalities, the ships from the west coast of South and Central America were

as follows:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
British Peruvian Chilean Norwegian Dutch United States.	22 3 3 3 2 2 23	67,691 12,632 10,341 16,653 13,323 101,148	37,892 7.583 6,192 10,470 8.648 61,857	62,717 8,364 8,518 13,400 11,413 72,952	Tons. 67,691 9,656 4,883 4,150 17,361 80,191
Total.	56	221.788	132.552	177,364	183,

PRINCIPAL TRADE ROUTES.

The distribution of the traffic through the Canal in October, 1919, according to the principal trade routes, was as follows:

	Ves- sels.	Panama Canal net tonnage.	Cargo.
Atlantic to Pacific. United States to Australia and New Zealand. United States to Far East. United States to Far East. United States to west coast of South America. Cristobal to west coast of South America. Cuba to west coast of South America. Europe to Australia and New Zealand. Europe to west coast of North America. Europe to west coast of South America. Mexico to west coast of South America.	12 9 17 2 4 3 10	6,651 31,882 47,916 31,679 25,776 6,911 32,453 13,934 46,542 4,971 33,088	Tons. 9,749 32,542 73,549 42.143 10,549 19,866 5,750 12,236 9,080 52,459
Total	73	281,903	268,131
Pacific to Atlantic. United States coastwise Australia and New Zealand to Europe. Far East to Europe. West coast, North America to Europe. West coast, South America to Europe. Far East to east coast of United States West coast, South America to east coast of United States. West coast, North America to east coast of United States. West coast, North America to Mexico. West coast, South America to Mexico. West coast, South America to Cristobal. West coast, North America to Cuba. Miscellaneous.	19 5 12 3 5	55,431 82,190 268 39,042 74,952 20,777 33,242 16,682 26,267 28,960 5,302 1,502 3,584	84,768 86,098 406 46,654 116,301 28,511 41,402 (*) (23,872 5,657 2,357
Total	123	388,197	437,750

^{*} Ballast.

SERVICES TO CANAL SHIPPING.

Repairs were made on 128 vessels during the month, 78 at Cristobal and 50 at Balboa. Six vessels were dry docked at Cristobal, and 7 at Balboa. Sales of fuel oil to ships from stock of The Panama Canal were 6,145 barrels to 1 vessel at Cristobal, and 3,823 barrels to 3 vessels at Balboa. Coal sales were 39,028 tons to 114 vessels at Cristobal, and 8,003 tons to 28 vessels at Balboa, a total of 142 vessels receiving 47,121 tons. Water sold included 7,973,015 gallons to 152 vessels at Cristobal, and 2,145,000 gallons to 132 vessels at Balboa, a total of 284 vessels receiving 10,118,015 gallons. Sales of commissary supplies to commercial ships, of lines other than that of the Panama Railroad, aggregated \$90,699.18, including \$2,089.44 for laundry supplied at Cristobal, \$39.83 at Pedro Miguel, and \$609.65 from Ancon laundry, delivered at Balboa. Laundry service for all ships amounted to \$3,408.03. Tug service performed for vessels using the Canal and the terminal ports was charged at \$26,878.90, of which \$20,342.65 was collected through the office of the Captain of the Port at Cristobal, and \$6,536.25 at Balboa.

STATEMENT OF OPERATIONS.

Details of the business transacted at the Atlantic and Pacific terminals of the Canal are shown in the following tabulations:

ltem.	Cristobal.	Balboa.	Total.
Commercial ships making transit of Canal.	73	123	196
Net tonnage of commercial ships, Panama Canal measurement	281,903 229,238	388,197 316,617	670,100
Registered gross tornage of commercial ships.	363,369	509,637	545,855 873,006
Registered net tonnage of commercial ships.	232.696	319, 129	551,825
Cargo through Canal in commercial ships, tons of 2,240 pounds	268.131	437.750	705.881
Deck load cargo, included in above.	714	6,557	7,271
Nationality of commercial ships through Canal:		.,	
British	32	38	70
Norwegian	5	3	8
Peruvian	2	3	5
Chilean	2	3	5
Belgian		10	1
French. Swedish		°	9
Japanese	8	2	8
Dutch	2	2	4
Spanish	3		3
Italian	Ĭ		1
United States.	18	63	81
Total	73	123	198

Item.	Cristobal.	Balboa.	Total.
Panama Canal net tonnage of commercial ships through the Canal:			·
British	125,723	143,566	269,289
Norwegian	26,841	13.400	40,24
Peruvian. Chilean.	5,097	8.364	13,46
Belgian	6,043	8,518 266	14,561 266
French		8,428	8 429
Swedish	7,970	1	8,428 7,970
Japanese	24,782 11,552	8,793	33,578
Dutch Spanish	11,552	11,413	22,965
Italian	6,442		6,442 3,750
United States	3,750 63,703	185,449	249,152
Total		<u> </u>	
United States equivalent net tonnage of commercial ships through the	281,903	388,197	670,100
Canal:			
British	101,737	112,159	213.896
Norwegian	23.019	10,696	213,896 33,715
Peruvian. Chilean.	3,345	6,874	10,219
Belgian	3,675	5,237 271	8,912
French		7,848	271 7,848
Swedish	4,572	1	4,572
Japanese	20,645	7,789	28,434
Dutch Spanish	8,592	8,460	17,052
Italian	3,430		5,430
United States	5,430 3,239 51,984	157,283	3,239 212,267
Total	229,238	316,617	515,855
British	163,886	178,050	341,936
Norwegian	31,485	16,653	48.138
Peruvian	7.922	12.632	48,138 20,554
Chilean	8,303	10,241	18,644
Belgian. French.		12 0 2	373 13,992
Swedish	7,517	13,952	7,547
Japanese	31,114	11,905	43,019
Dutch	31,114 13,368	13,323	26,691
Spanish Italian	8,613		8,613
United States.	5,283 85,848	252,368	5,283 338,216
TotalRegistered net tonnage of commercial ships, through the Canal:	363,369	509,637	873,006
British	103,527	112,026	215,623
Norwegian	19,678	10,470	30,148
Peruvian	3,941	7,5\3	11,524 12,278
Chilean	6,086	6,192	12,278
Belgian French	• • • • • • • • • • • •	277 8,349	277 8,349
Swedish	5.697	0,040	5.697
Japanese	21,535	7,712	29,247 17,293 5,376
Dutch	8,645	8,648	17,293
Spanish Italian	5,376		5,376
United States.	3,189 55,022	157,802	3,189 212,82 4
<u> </u>			
Total Cargo carried by ships of various nationalities:	232,606	319,129	551,825
British	109,442	165,866	275 308
Norwegian	25,531	4,150	275,308 29,681
Peruvian	1,930	9,656	11.586
Chilean. Bel gian	679	4,83	5,562
French.		406 11,323	11 222
Swedish	1,759		11,323 1,750
Japanese	36,566	15,0 2	51,658
Dutch Italian	300	17,361	17,661
United States.	920	209,013	300,026
·	91,013	209,013	300,020
Total	268,131	437,750	705,881
ressels passing through the Canal free of tolls:			
U. S. Navy cruisers. U. S. Navy destroyers.	1 2		1
	3 3		3
			ĭ
	2		2
U. S. Navy scout patrols	1 2 1 2 2		1
U. S. Navy collier U. S. Navy scout patrols, Merchant ships with coal for Navy			3 1 2 1 2 3
U. S. Navy subchaser		1	1
<u>-</u>			17
Total	16	1	17

Item.	Cristobal.	Balboa.	Total.
Launches:			
Net tonnage of launehes, Panama Canal measurement Total ocean-going ships transiting Canal	1 89	124	213
Cargo on which no tolls were chargedtons. Commercial ships passing through Canal without eargo, but not in ballast.	34,793		34,793
Net tonnage of above, Canal measurement. Commercial ships through Canal in ballast.	3,066	10	3,066 19
Net tonnage of above, Canal measurement. Total commercial ships without cargo, transiting Canal	23,593 10	51,715	75,308 20
Net tonnage of above, Canal measurement	26,659	51,715	78,374
Motor ships through the Canal	13,866	404	14,270
Salling ships through the Canal. Net tonnage of sailing ships, Canal measurement. Tolls levied on laden ships through the Canal. Tolls levied on ships without eargo, but not in ballast.		654	654
Tolls levied on laden ships through the Canal	\$259,851.95 \$2,297.50	\$342,064.30	\$601,916.25 \$2,297.50
Tolls levied on ships in ballast. Tolls on launches	\$16,926.84	\$37,281 15 \$2 40	\$54,207 99 \$2.40
	\$279,076.29	\$379,347.85	\$658,424.14
Total tolls levied. Total ships entering port, including Canal transit. Total ships clearing port, including Canal transit.	241 239	215 220	456 459
	480	435	915
Total ships handled. Net registered tonnage of vessels entering port.	682,950	584,363	1,267,313
Net registered tonnage of vessels clearing port.	693,987	595,546	1,289,533
Total for vessels entering and clearing	1,376,937 1,105,430	1,179,909 931,597	2,556,846 2,037,027
Registered gross tonnage of vessels clearing	1,123,379	951,218	2.074.597
Total registered gross tonnage of vessels entering and elearing	2,228,809	1,882,815	4,111,624
Vessels entering port, but not passing through the Canal Net tonnage of above	120,000	6 12,526	47 132,526
Gross tonnage of above. Vessels elearing port, but not passing through the Canal	196,292 46	17,849	214, 141
Net tonnage of above	131,404 215.761	13,750 21,469	145,154
Gross tonnage of above Vessels passing through Canal, and handling passengers or cargo at			237,230
Net tonnage of above	$\frac{27}{54,929}$	71,710	129,639
Gross tonnage of above. Vessels passing through Canal, and handling passengers or eargo at port	99,216	132,460	231,676
cleared Net tonnage of above	26 58,113	39 74,710	65 $132,823$
Gross tonnage of above. Transit eargo arriving tons.	105 109	132,460 701,915 722,530	132,823 237,562 1,421,283
Transit cargo cleared. tous. Local cargo arriving. tons.	719,368 701,018 35,351 3,230	722,530 24,875	1,423,548 60,226
Local cargo shippedtons.	3,230	1,447	4,677
Total local cargo handledtons	38,581	26,322	64,903
Total local and transit eargo arrivingtons	754,719 704,248	726,790 723,977	1,481,509
Total local and transit cargo cleared tons. Cargo received by Receiving and Forwarding Agency of P. R. R. tons. Cargo dispatched by Receiving and Forwarding Agency of P. R. R. tons.	50,436	3,600	1,428,225 54,036
Cargo rehandled by Receiving and Forwarding Agency of P. R. R. tons.	31,686 3,807	422 2,871	32,108 6,678
Total cargo handled by Receiving and Forwarding Agency of			
P. R. R tons. Cargo stevedored, included in above tons.	85,929 36,648	6,893	92,822 36,816
Coal supplied to commercial vessels other than Panama Railroad tons	106 38,050	6,781	130 44.831
Panama Railroad vessel supplied with bunker coal Coal supplied Panama Railroad Steamship Line. tons	1 250		1 250
U. S. Navy vessets supplied with bunker coal	108	1,184	1,292
Coal supplied U. S. Navy vessels. tons. U. S. Army vessels supplied with bunker coal. tons. Coal supplied to U. S. Army vessels. tons.	620	3	7
Total vessels supplied with bunker coal Total coal furnished to vessels. tons	114	128	748 142
Coal supplied Panama Railroad departmentstons.	39,028 877	8.093 40	47,121 917
Coal supplied Army, excepting vessels. tons. Coal supplied The Panama Canal tons.	143 2,326	746	$\frac{143}{3.072}$
Coal supplied individuals and companiestons.	519	• • • • • • • • • • • • • • • • • • • •	519
Total coal furnished tons Coal received during October tons	42,893 24,036	8,879 12,017 12,204	51,772 36,053
Vessels supplied with water	42,010 152	12,204	54,214 284
water sold to ships	7,973,015	2,145.000	10.118,015
Vessels dry-docked. Commercial vessels furnished commissary supplies. Panama Railroad vessels furnished commissary supplies.	148	75 1	223 12
Other U. S. Government vessels furnished commissary supplies	16	17	33
Total vessels furnished commissary supplies	176	93	268

Item.	Cristobal.	Balkoa.	Total.
Commissary sales to commercial vessels: Ice. Wholesale groceries. Wholesale cold storage. Laundry. Miscellaneous.	\$1,349 20 10,386 76 41,402 03 2,089.44 2,063.26	\$617.85 5,952.85 24.740.92 617,35 1,439.67	\$1,967.05 16,339.61 66,142.95 2,706.79 3,502.95
Total. Commissary sales to Panama Railroad vessels: Lee. Wholesale groceries. Wholesale oold storage. Laundry. Miscellaneous.	\$57,290.71 \$166.20 1,747.06 5,846.39 642.87 1,286.07	\$33.368.64 212.08 622.67	\$90.659.35 \$166.20 1,959.14 6,469.06 642.87 1,286.07
Total. Commissary sales to other Government vessels: lee. Wholesale groceries. Wholesale cold storage. Laundry. Miscellaneous.	\$9,688 59 \$163.55 10,307.45 6,962 45 46.47 1,066.02	\$34.75 \$307.28 4,032.83 14,305.11 11.90 1,023.26	\$10,523.34 \$470.83 14,340.28 21,267.56 58.37 2,089.28
Total Total commissary sales to vessels. Fuel oil sold to commercial vessels. Fuel oil issued to U. S. Navy. barrels. Fuel oil issued to U. S. Army. barrels. Fuel oil issued to Canal departments. barrels.	\$18.545.94 \$85,525.24 6,145 205 5.730	\$19,680.38 \$53,883.77 3,157 	\$38,226.32 \$139,409.01 9,302 205 666 28,418
Total furnished from Canal tanks. barrels. Fuel oil on hand November 1. barrels. Other oil pumped. barrels. Diesel oil on hand November 1. barrels. Passengers arriving, including transit passengers: First cabin. Other than first cabin.	12,080 64,046 233,842 2,697 3,316	26,511 110,906 129,801 1,499 1,854 3,798	38,591 174,952 363,643 1,499 4,551 7,114
Total Passengers departing, including transit passengers: First cabin. Other than first cabin.	6,013 2,931 3,794	5,652 1,877 3,801	11,665 4,808 7,595
Total. Total movements of passengers. Passengers disembarking: First cabin Other than first cabin. Total.	1,338 675 2,013	11,330 149 64 213	12,403 24,068 1,487 739 2,226
Passengers embarking. First cabin. Other than first cabin. Total	1,384 504 1,888	172 67 239	1,556 571 2,127
Services to American seamen: Seamen shipped. Seamen paid off. Seamen deserted. Seamen deceased. Seamen lodged, subsisted, and repatriated.	129 96 11	177 145 9 2	306 239 20 2 30
Total seamen handled		\$15,322.27 4,169.61	\$24,878.68 4,939.95
Balance due seamen Paid to seamen Received on deposit for seamen Services to American vessels: Crews shipped Crews paid off	2	11.152,66 6,745.94 4,406.72	19,938 73 9,990.63 9,948.10 2 2 6
Shipping articles written. Marine notes of protest noted.	2	10 10	6 15

LOCK OPERATION:

Lockages of commercial vessels were made during the month as follows:

	Number of lockages.			Number of vessels.		
	North.	South.	Total.	North.	South.	Total.
Gatun. Pedro Miguel.	120 123	71 77	191 200	124 123	76 78	200 201
Miraflores	118	76	194	123	78	201

Lockages of Army and Navy vessels, vessels operated by The Panama Canal, and of commercial vessels, are included in the following summary of all lockages during the month:

Lockages.	Gatun.	Pedro Migael.	Miraflores.
Commercial lockages Noncommercial, United States Army and Navy. Canal equipment.	192	200	194
	14	12	11
	5	26	24
Total Vessels: Commercial vessels. Noncommercial, United States Army and Navy and Canal	211	238	229
	200	201	201
	48	78	81
Total	248	279	282

Water consumed for all lockages amounted to 1,629,870,000 cubic feet, that used at Pedro Miguel becoming available for second use at Miraflores Locks. Consumption of water by the locks during the month was as follows:

	Gatun.	Pedro Miguel.	Miraflores.
Lockage	20,000,000		15,000,000
Total	901,220,000	779,150,000	733,910,000

METEOROLOGY.

Rainfall during the month ranged from 10.21 inches at the Culebra station on the Pequeñi River to 23.22 inches at the Gatun River station. The greatest precipitation recorded in any one day was 4.04 inches, at Juan Mina on the 10th.

Seismic disturbances were recorded at Balboa Heights on the 9th and 26th of the month. The shock of the 9th was of near-by origin and though of small amplitude

was generally felt.

The Chagres River discharge at Alhajuela was 26 per cent below the 18-year October average, or 2,512 c. f. s. against a mean of 3,386 c. f. s. and furnished 24 per cent of the Gatun Lake total yield. The maximum October discharge in the 18 years was 5,135 c. f. s in 1914, and the minimum discharge 2,031 c. f. s. in 1904. The maximum momentary discharge for October, 1919, was 9,375 c. f. s. at elevation of 96.60 on the 11th, and the minimum momentary discharge was 1,613 c. f. s. at elevation 91.93, on the 30th and 31st. There were no freshets in the Chagres River during the month with a rise of more than 5 feet at Alhajuela.

The elevation of Gatun Lake on October 31 was 86.30, as compared with 85.47

at the close of the prior month.

ELECTRICAL DIVISION.

Gatun hydroelectric station—The net output of the hydroelectric station for the month of October was 5,228,924 kilowatt-hours, and the computed water con-

sumption was 3,997,672,200 cubic feet.

Miraflores steam plant—The net output of the steam plant was minus 156,190 kilowatt-hours, and the oil consumption was 2,218.06 barrels. This station handled all the load on the south end of the system for about three and one-half hours on October 11, on account of the removal of a span of Gamboa Bridge.

Total power output-The total power output for both generating stations was 5,072,734 kilowatt-hours, and the total amount of power distributed to feeders by substations and generating plants was 4,550,994 kilowatt-hours, representing an energy loss of 10.2 per cent.

Transmission line—There was one interruption to transmission line service during the month, caused by breaking of a switch solenoid arm casting at the Gatun substation. Service was interrupted at Miraflores 3 minutes and Balboa 2 minutes.

Marine work—Repairs and additions of electric equipment, embracing 38 items,

were made at Cristobal on the following vessels: Nobles, tug Engineer, Middlebury, Cyrus W. Field, U. S. M. P. Graham, Kenosha, Balboa, Gen. W. C. Gorgas, Lake Como, Achilles, Aysen, Winnipeg, Deroche, C-46, Cabeza, Ontario, Guatemala, A. G. Forse, Imlay, Colon, launch Rodman, and dredge Gamboa. Work was in progress at the end of the month on the C-44, C-45, Balboa, Caribbean, and tug Tavernilla. At Balboa, electrical work was done on the following vessels: Paila, Cristobal, barges Nos. 13 and 29, Orotina, Okiya, dredge Corozal, tug Gorgona, Bonifay, Melville, Asotin, tug Gatun, Buhisan, Lima, Sewickley, dredge Cascadas, Dardania, Butte, Navy target raft No. 50, Goodspeed, Ludlow, Aspenhill, War Company, Ulysses, C-40, U. S. M. P. Graham, dredge No. 84, Tanka, crane Hercules, Minnesotan, Castle Point, C-40, Guatemala, Bonham, Santa Elena, and Colindo.

SHOPS, FOUNDRY, AND DRY DOCK WORK.

The Paila, formerly the Anubis, the last of the 5 ex-German vessels brought from Peru, was completed and delivered. These vessels had their machinery completely wrecked by the Germans before they were seized, and the work performed on them was of such a character that its successful accomplishment places the Canal shops on a parity with first-class shipyards in the continental United States. The Paila was formally turned over to the Shipping Board on October 6, and on the 9th left for Chile to take on a cargo of nitrate for the United States. The vessel made slow speed on her trial runs, due to the use of coal which had lain in her bunkers for four years, and was probably poor when mined, but with Pocohontas coal the ship made better speed than her log book indicates she made while under German ownership.

The main engines of the Cristobal, which had been removed from the vessel and thoroughly overhauled during the process of hull repairs in the engine space, were replaced and new boilers were hoisted into the vessel. The steel work advanced considerably and the cargo cold storage spaces were nearly completed except for the refrigeration system. Construction of the passenger accommodations was advanced and the work on the woodwork for them was begun.

The oil-burning parts of the Melville were received from the United States, repairs to the vessel were effected, and it departed for the Pacific Coast.

The extensive repairs on the wooden steamers Okiya, Bonifay, Asolin, and Sewick-

ley, were completed.

The Chilean cruiser Lima was dry docked; the rudder was removed, and new pintles and gudgeons were fitted. On account of the construction of the vessel, this work was more difficult than the ordinary rudder job.

The docking of the Huasco marks the docking of a second ship for the Compañia Sud-Americana de Vapores (Chilean Line), the company hitherto having dry docked

its ships at Callao.

The Guatemala of the Pacific Steam Navigation Company was dry-docked for painting and cleaning only, but examination disclosed an urgent necessity for rudder repairs. As the ship was on a passenger run, with mails, continuous night and day work was resorted to and the repairs were effected within 4 days.

Toward the end of the month the wooden steamship Bonham was towed to the plant and placed in dry dock. Her rudderpost had been carried away at sea, together with the lower portion of her sternpost and the after-portion of her keel. In addition, the rudder stock was bent, steering engine completely wrecked, and her propeller

broken beyond repair. Repairs were in progress at the end of the month.

At the Cristobal Shops the following vessels arrived for repair: A. G. Forse, Cauca, Balboa, Ulysses, Culebra, Gen. W. C. Gorgas, Lake Como, Dakotan, Urubamba, Nobles, Datova, Citysses, Cilieora, Gen. W. C. Gorgas, Lake Como, Dakotan, Urubamba, Nobles, Aspenhill, Alda, Guatemala, Ontario, Mantaro, Cabeza, Allianca, Colon, Advance, Panama, Caribbean, Achilles, Middlebury, Gen. Geo. W. Goethals, Zarembo, Himoto, Antillan, Ebro, Imlay, Moosabee, Peru, Alkmaar, Stuyvesant, Manavi, Chimo, Costigan, Deroche, Colorado Springs, Metapan, Poe, Cyrus W. Fields, Percival Parks, Bradford, Kenosha, Chile, Capimee, Bottineau, Blue Eagle, Jamaica, Cranenest, Montcalm, Holbrook, Salvador, Ady, tug Tavernilla, derrick barge No. 157, subchaser No. 284, tugs Mariner and Porto Bello, C-31, C-33, C-40, C-44, C-45, C-46, launch Capron, U. S. A. T. Marica, U. S. A. T. Madawaska, launch Wilhelm, Bald Hill, Lake Elk Water, Memphis, Hattonville, Belle Buckle, Asotin, Winnibea, and Bassmorth. Water, Memphis, Hattonville, Belle Buckle, Asolin, Winnipeg, and Bosworth.

Of the above, the following were in dry dock during the month: Cauca, A.G. Forse,

Balboa, Ady, tug Tavernilla, and subchaser No. 284.

At the Cristobal Shops 194 individual and company job orders were issued during the month, 1 of which was for work on a submarine, and 4 on other Navy craft. Of the remaining 189, 84 covered repairs to ships making Cristobal or in transit through the Canal, exclusive of Panama Railroad ships. The overhauling of the Culebra was continued during the month. The extension of an air line to and on Pier No. 6, Cristobal, was completed during the month and the manufacture of a wharf bunker for the Cristobal coaling station was started during the latter part of the month.

Work was performed at the Balboa Shops during the month for the following vessels: Bonham, Huasco, Fassett, Cristobal, Paita, Delfina, Minnequa, Brasher, Buhisan, Asotin, Coalinga, Bonifay, Okiya, Bushred, Sewickley, Dardania, Guatemala, Castle Point, La Habra, Butte, Mexico, Balboa, Goodspeed, San Joaquin, Tanka, Metatua, Aspenhill, El Segundo, War Company, Acajutla, Imlay, Bradford, C-40, Minnesotan, Colindo, Bald Butte, Melville, Iroquois, U. S. M. P. Graham, tug Slocum, destroyers Bailey and Chew, collier Ulysses, crusier Lima, dredge Corozal, Ludlow, Almirante, Orotina, Santa Elena, and Chiriqui.

Of the above, the following were in dry dock during the month: Cristobal, Gorgona,

Guatemala, Huasco, Bonham, and Lima.

Patterns made and foundry output, compared with September, were as follows:

	Octo	ber.	September.		
Iron	19	Pounds. 134,0674 24,093 15,985½	Patterns. 64 19 62	Pounds. 117,173 27,361 27,097½	

Equipment was hostled as follows: Locomotives, 1,599; cranes, 235; making a total of 1,834. Three hundred and thirty shop and 1,517 field repairs were made on cars, 803 freight cars were repacked, and 3,166 passenger coaches were packed, cleaned, oiled, and inspected.

BUILDING CONSTRUCTION.

Erection of the Puerto Obaldia radio station was 90 per cent completed at the end of the month.

Demolition of the old storehouse at Mount Hope was completed.

Construction of an oil storage shed for the Balboa store was 25 per cent completed.

The office building for the Central and South American Telegraph Company

at Balboa was brought to 95 per cent of completion.

Work on the tuberculosis ward at Corozal Hospital continued held up, pending the arrival of material.

Work was begun on converting the old Section "F" of Ancon Hospital into family

quarters, and was 20 per cent completed at the end of the month.

Terminal construction.—In the reconstruction of the Royal Mail pier, Colon, the placing of concrete floor slab was 90 per cent completed during the month. On Pier No. 6, Cristobal, the doors and washing walls were completed, and the cranes were advanced to 90 per cent of completion.

DREDGING DIVISION.

The total excavation by dredges during the month of October was 340,150 cubic yards, as follows:

Cubic yards.	Classifi Earth.	Rock.	Character of work.	Stations.	Equipment.
a 47,250	30,000	17,250	Maintenance	East Culebra Slide. 1774-00 to 1790-00	Gamboa.
a 91,600	41,600	50,000	Maintenance	1821-00 to 1806-00	Cascadas.
b 76,700 b 20,800	76,700		Maintenance	2203–00 to 2239–00. Miraflores P. I.	No. 84. No. 86.
b 9,200	9,200		Maintenance	Miraflores P. I	No. 86.
b 30,000	30,000		Maintenance	2079–50 to 2097–50	No. 86.
b 800	800		Original	Canal Prism	No. 86.
c 49,200	9,000	40,200	Aux. Const	Area No. 10, Cristobal	Gamboa.
c 8,500		8,500	Aux. Const Balboa Inner	Area No. 11, Cristobal	
			Harbor	Sta. 1–75 to 2–25	
d 6,100	6,100		Maintenance	Base line A, Sta. 2231–00 and 2339–50.	Cascadas.
340.150	224,200	115,950	Total for month		

⁽a) Gaillard Cut.

The following disposition was made of the excavated material: Seventy-six thousand seven hundred cubic yards were dumped in the San Juan fill; 6,100 cubic yards at sea beyond the Pacific entrance; 60,800 cubic yards in the flats west of the Canal at Balloa; 138,850 cubic yards in Gatun Lake, north of Gamboa; and 57,700 cubic yards between the end of the East Breakwater and Margarita Point.

Slide movement—On October 3, Cucaracha slide became active and the movement continued during the remainder of the month. It is estimated that 150,000 cubic yards of material moved into the Canal area during the month. The dredge Cascadas dredged in front of this area throughout the period and kept the situation well in hand. There was no interference with Canal traffic and a reliable channel was main-

tained at all times.

On October 16, East Culebra slide, between stations 1775-00 and 1788-00 became active and continued for two days. Since then, there has been no general movement. This movement brought an estimated quantity of 125,000 cubic yards

⁽b) Pacific entrance.

⁽c) Atlantic terminal.

⁽d) Balboa inner harbor.

of material into the Canal area. The dredge Gamboa was immediately put in operation at this area and continued dredging the remainder of the month. There was no interferer ce with Canal traffic and a reliable channel was maintained at all times.

The excavation remaining to be done in the Canal prism, on November 1, was 172,400 cubic yards of earth and rock, and from the Cristobal coaling station and Balboa inner harbor, 2,100 and 167,800 cubic yards, respectively.

MUNICIPAL ENGINEERING DIVISION.

The circulating water system for the cold storage plant at Mount Hope was completed; 170 linear feet of pipe were placed and 21 cubic yards of concrete poured during October.

In grading and filling for the new silver townsite, Mount Hope, grading was 75 per cent completed, water lines 10 per cent completed, and sewers 2 per cent completed. Fourteen thousand three hundred cubic yards of fill were placed and graded.

At the new Panama Railroad stables in Colon, the grading, rolling, drains, and water lines were completed, and the placing of concrete is 50 per cent completed. No work was performed during the month on the sewer and water lines for the

Central and South American Telegraph Company's building at Balboa.

The sewer from North Avenue, Panama, to the beach was 60 per cent completed

at the end of October.

Water pumped in the northern district amounted to 225,337,000 gallons, and in the southern district to 580,752,030 gallons, making a total of 806,089,030 gallons, as compared with 786,879,500 gallons in September. Colon was furnished with 55,074,600 gallons, Panama with 85,503,000 gallons, and 10,118,015 gallons were sold to 284 ships. The incinerator at Gavilan Island burned 2,065 tons of garbage and 53 dead animals in October.

WORKING FORCE.

Effective October 22, 1919.

Department or Division.	Gold.	Silver.	Total.
Operation and Maintenance:			
Office	40	45	85
Building Division	347	1.940	2,287
Electrical Division	249	313	562
Municipal Engineering Division.	121	1.894	2,015
Lock Operation,	159	560	719
Dredging Division.	145	882	1.027
Mechanical Division	976	1,772	2,748
Marine Division	141	420	561
Fortifications	61	223	284
Total	2,239	8.049	10,288
upply Department:.			
Quartermaster	160	1,926	2,086
Subsistence	28	410	438
Commissary	215	1,585	1,800
Cattle Industry—Plantations	29	504	533
.ccounting	241	11	252
Iealth	242	1,007	1,249
executive	534	283	817
anama Railroad:			
Superintendent	45	509	554
Transportatioн.	145	269	414
Receiving and Forwarding Agent.	75	766	841
Coaling Station	85	804	889
Hotel Washington	5	101	106
Grand total	4,043	16,224	20,267

The total gold force at work on October 22 was 7 less than the 4,050 at work on September 24, and the silver force was 2,029 less than the 18,253 then at work. As compared with the gold force for the corresponding month of last year, reported as of October 25, 1918, the gold force was an increase of 1,197 over the 2,846 at work on that date, and the silver force a decrease of 440 over the 16,664 of that date.

The occupation of quarters or October 31 was as follows:

Oecupants.	Men.	Women.	Children.	Total.
Americans. Europeans. West Indians.	3,462 191 5,329	2,134 41 1,995	2,589 58 3,763	8,185 29 0 11,087
Total	8,982	4,170	6,410	19,562

PUBLIC HEALTH.

Sixty cases of malaria were reported during the month of October as compared with 112 cases during the month of September. One death occurred from malaria; 7 cases of influenza were discharged from Canal Zone hospitals; no new cases were reported and no deaths occurred from influenza in October.

Preumonia cases reported numbered 4 and there was 1 death from preumonia,

as compared with 15 cases and 2 deaths during the preceding month.

Typhoid fever caused 3 admissions and 1 death, as compared with 5 admissions and 1 death during September.

One case of smallpox was admitted from the interior of Panama. There were no

deaths from smallpox.

Two cases of leprosy were admitted to Ancon Hospital and transferred to the colony at Palo Seco.

RECEIPTS AND SALES OF MATERIAL AND SUPPLIES.

The value of material received during the month on United States requisitions was \$471,902.50, as compared with \$499,551.88 in September. Of that received in October, \$389,870.64 was chargeable to operation and maintenance; \$75,833.80 to construction and equipment; and \$6,198.06 to miscellaneous departments. Isthmian cash sales from storehouses and obsolete store amounted to \$36,475.53, of which \$34,365.65 was for stock, \$596.12 for scrap, and \$1,513.76 for obsolete and second-hand material. The more important sales made in the United States were the ladder dredge *Corozal*, for \$190,000; spares for the *Corozal* for \$125,000; one Lidgerwood hoisting engine and boiler for \$2,000; and 1,458 exhausted storage battery elements for \$556.37.

The total sales of material from storehouses to steamships for the month, including fuel oil, but excluding sales by the Commissary Division, which amounted to \$139,409.01, were \$18,411.70. Sales of commissary supplies to all purchasers for the month aggregated \$1,002,311.47, made up as follows: To steamships, other than United States naval vessels and those of the Panama Railroad Steamship Line, \$90,766.40; to The Panama Canal, \$120,088.71; to the United States Government, includirg sales to the Army and Navy, \$189,066.87; to individuals and companies, principally through charge accounts in the retail stores, \$20,298.46; to the Panama Railroad, including its steamships and the Hotel Washington, \$25,187.03; and to individuals purchasing with coupons, \$556,904.

FINANCIAL RECEIPTS AND EXPENDITURES.

The cash balance in Canal appropriations on October 31, exclusive of fortifications was \$16,129,405.75; the balance in fortifications was \$8,386,387.63. Payments from appropriations by Disbursing Clerk in Washington amounted to \$650,192.31, and by the Paymaster on the Isthmus to \$1,428,774.82. Purchases of commissary books from the Panama Railroad Company amounted to \$341,655.16. Collections of tolls totaled \$661,307.74. Deposits of \$227,643.77 were made with the Assistant Treasurer of the United States to be applied on payment of tolls and other charges against vessels using the Canal. The total Panama Canal collections on the Isthmus were \$2,533,044.07, and collections by the Disbursing Clerk, Washington, \$67,773.57. Receipts from the Canal Zone and miscellaneous funds were \$178,508.36, and disbursements from the same source amounted to \$157,978.34. October payrolls on the Isthmus aggregated \$1,247,252.09, as compared with \$1,204,943.99 for September, a difference of \$42,308.10.

Respectfully,

CHESTER HARDING,

Governor.

Fuel Oil at \$1.50 a Barrel.

Crude fuel oil from tanks of The Panama Canal is being delivered to vessels at Cristobal and Balboa for \$1.50 per barrel of 42 gallons. This is Mexican oil, with a calorific value exceeding 140,000 British thermal units per United States gallon, specific gravity not exceeding 0.96 at 15° Centigrade, viscosity not exceeding 35° Engler at 150° F., and sulphur content not exceeding 4.5 per cent. These prices have been effective since October 15, 1919.

MOVEMENTS OF OCEAN VESSELS. Week ending at Midnight, December 6, 1919.

THROUGH THE CANAL-ATLANTIC TO PACIFIC.

			THE THINKER CANNE RECORD
-	Canal	Net	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	PanamaCana tonnage	Gross	7.25.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.
		Tons	7.8.203 7.834 7.834 7.834 7.100 7.7000 7.7000 7.7000 7.7000 8.8100 8.800
	Cargo		General mdse General General General General General Ballast Concral Concral General
		For	San Francisco. Lyttleton Sattleon San Francisco San Francisco San Francisco San Francisco San Francisco Mejillones San Francisco Guayaquill Yokohama Yokohama Tocopilla Shanghal Shanghal Shanghal Shanghal Shanghal Shanghal Shanghal Shanghal Shanghal Shan Diego San Diego San Francisco Yokohama San Francisco San Diego
		From	Glasgow Ne v York London Ne v York Chistobal Baltimore Baltimore Hucka New York Norfolk New York Norfolk Cristobal Cristobal New York Norfolk New York New York Norfolk New York
IC.	Salt	Length Beam water draft	88888888888888888888888888888888888888
PACIF		Bean	8.55.54.44.45.75.75.45.75.75.75.75.75.75.75.75.75.75.75.75.75
NTIC TO		Length	288.9 28
THROUGH THE CANAL—ATLANTIC TO PACIFIC		Line	Gow Harrison & Co British India Steam Nav. Co Alreed Holt & Co American-Hawaiian Line. Pacific Mail Steamship Co Colle State Shipping Board. Standard Transportation C. T. Bowring & Co. Pacific Steam Navigation Co Bellerman Wilson Line Stotia Maiden Co. Clinical States Shipping Board Alfred Holt & Co. Clinical States Shipping Board Clinical States Shipping Board Pacific Steam Navigation Co. United States Navy United States Shipping Board Collombian Maritime Co. W. Wilhelmean Nippon Yusen Kabushik Kasha United States Shipping Board Collombian Maritime Co States Navy Lonical States Shipping Board Collombian Maritime Kasha United States Shipping Board Collombian Maritime Kasha United States Navy Penryan Reamship Line United States Navy Penryan Reamship Line United States Navy Penryan Steamship Line United States Navy Penryan Steamship Line United States Navy
		Nationality	iritish morican
	Cleared for sea	поН	8 30 15 20 30 16 03 8 8 8 8 18 18 20 18 20 18 20 18 20 18 30 18 20 18 30
	23	Day	88888999999999999999999999999999999999
	ompleted	Hour	30 15. 20 30 16. 30 16. 30 17. 20 30 18. 30
	Com	$\mathbf{D}^{\mathrm{g}\lambda}$	0.000 0.000
	red 1al	1noH	29 9 14 30 6 18 29 11.35 30 6 5.18 29 11.35 30 6 5.18 20 10.28 30 10.56 30 10.28 30 10.56 30 10.29 10.56 30 10.2
	Entered Canal	Day	00000000000000000000000000000000000000
	ved	moH	29 19 14 80 6.11 2 2 9 19 14 80 6.11 2 1 10 2 8 8 1 15 12 8 0 6.11 2 1 10 2 8 1 15 12 8 10 6.12 1 10 6.12
	Arrived at port	Day	28
		dilk	Volga 29 9 14 30 6.18 Burydamas 29 11,35 30 6.18 Burydamas 29 11,35 30 6.18 Pananan 20 11,35 30 10.28 San J 20 12,38 10.28 30 10.28 San J 20 14,15 30 10.28 30 10.28 Avies 29 16,40,12 6.17 14 15.12 6.12 6.12 6.13 6.12 1.1 6.13 6.1 1.2 1.2 2.2 13.02 1.2 1.2 2.2 1.3 1.2 2.2 1.3 1.2 2.2 1.3 1.2 2.2 1.3 1.2 2.2 1.3 1.2 2.2 1.3 1.2 2.2 1.3 1.2 2.2 1.3 1.2 2.2 1.3 1.2 2.2 1.3 1.2 2.2 1.3 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2

(a) Auxiliary schooner. (b) Transport. (c) Destroyer. (d) Tug. (c) Returned north through Canal. December 5. (f) In port

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	THE PANAMA CANAL RECORD 225								
-	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	6,90 2,02 4,17	neral. (n) 22,582 tons.		For	Catalgena, Mexico. Pensacola, Fla. Powo Orleana ed Porto Rico. New Orleana ed Porto Rico. New York and Kingston. New York and Kingston. New York. Cartagena. New York. Deptro Blanco, Mexico. London via wayporta.			V aparaiso.
-	Produce [40] Hemp and piling Hemp and piling (b) (c) (d) (deneral Lumber General Flour General Ballast Bartoy (m) Nitrates General General General General General General Flour	General General General	(m) Nitrates, sugar and general.	RES		Panama Railroad Cattle Industry Panamor. Pet. & Trans. Co. United States Shipping Board. United States Army United Fruit Company. United Fruit Company. Pana a Railroad Steamship Line. United Fruit Company. Panama Railroad Steamship Line. United Fruit Company. Panama Railroad Steamship Line. United States Shipping Board. United States Shipping Board. French Government.		TORES	Rolph Navigation and Coal Co 2 are postmeridian.
-	London United King(i) to Norfolk To Cristobal Mobile New York London New York New York New York New York Cristobal Guanta Lipawith Clanteston Baltimore Cristobal Cunta New York New Yo	NOL		*DEPARTURES	Line	Panama Railroad Cattle Industri Panamar. Pet. & Trans. Co. United States Shipping Board. United States Anny. United Fruit Company. United Fruit Company. United Fruit Company. Fruit Railroad Steamship Lin United States Shipping Board. Hirdustan Steamship Company. French Government.		*DEPARTORES	Rolph Navigatio
-	3.3 Auckland 3.3 Perland 3.3 Sha Perland 4.0 Buenaventura 7.0 Brisbane 2.0 Sautte 2.0 Sautte 2.0 Sautte 4.8 Teleshuan 4.0 Valparaiso 7.1 Valparaiso 7.2 Valparaiso 6.6 Manta 1.6 Melbourne 1.6 Melbourne 1.6 Melbourne 1.7 Balboa 1.6 Melbourne 1.7 Balboa 1.6 Melbourne 1.8 Seartle 1.9 Melbourne 1.9 Balboa 1.0 Balboa	5.6 Valparaiso	(l) Chrome ore, and general.		Vessels	a a corgan			Georgina Rolph
-	2.55 - 2.	6 52.3 27 2 45.9 10 2 51.6 23	1 1						Georgia nd all hour
	511.1 344.0 344.0 190.0 19		(k) Fustie dyewood.		Date	Nov. 30 Nov. 30 Nov. 30 Nov. 30 Dec. 3. Dec. 4. Dec. 5. Dec. 6. Dec. 6.	ALBOA.		Dec. 5
TREOUGH THE CAME	New Zealand Shipping Co. United States Navy. United States Navy. Colombian Maritime S. S. Co. G. W. McNera. United States Shipping Board. Childean Line. United states Shipping Board. Pacific Steam Navigation Co. United States Shipping Board. Pacific Steam Navigation Co. United States Shipping Board.	Ormoco Sicaniship Corporation: Harrison Line Peruvian Line W. R. Grace & Co	ايخا		From	New York via Haiti. Salatiago de Cuba. New Orlenas. Norfolk. New York via Habana. London via Port Limon. Tampico. New York via Kingston. New York via Hiniti. Colombian ports. Cartagena. New York via Haiti.	POUT OF BALBOA.		Tocoulla. San Francisco. High seas. Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.
	4, 52, 30, 19, 26, 14, 40, 12-123, 30, 19, 26, 118, 40, 12-123, 30, 19, 26, 118, 40, 12-18, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40	5 8.5512-517.2212-6 3.09 American 6 7.4212-615.0612-616.34 British 6 8.2812-615.57 Peruvian 6 9.28 12-616.2012-617.03 American	(i) For orders. (j) Coffee, hides, ivory nuts, and rubber.	*ARRIVALE	Line	Panama Railroad Steamship Line. United States Shipping Board. United Furit Company. Panama Railroad Steamship Line. United Furit Company. United States Shipping Board. United States Shipping Board. United Prut Company. Panama Railroad Steamship Line. United Prut Company. United Prut Company. Panama Railroad Cattle Industry. Panama Railroad Cattle Industry. Panama Railroad Steamship Line.		*ARRIVAL8	n. Wilhelmsen. Iph Navigation and Coal Co ited States Shipping Board Ganal.
	7. 10 30 12. 10 13.	$egin{array}{c c c c c c c c c c c c c c c c c c c $	ng schoone		Vessels	Gen. W. C. Gorgas. Kuwa. Parismina Plarismina Plarismina Plarismina Plarismina W. S. Ribern W. S. Ribern Parama Parama Marcms Marcms Ancon			Ceorgina Rolph Liberty
	Byfield 30 1	Hua buca Architect Urubamba			Date	Nov. 30 Nov. 30 Dec. 3 Dec. 3 Dec. 3 Dec. 4 Dec. 5 Dec. 5 Dec. 6			Dec. 3 Dec. 5

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending December 6, 1919.

				Car	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Paul Harwood Middlebury. Volga Middlebury. Volga Manavi Santa Leonora Parismina Chile Balboa Santa Marta Ulysses W. S. Rheem Atenas Ellerdale Huasco Panama Zacapa Ucayali Acajutla Middlebury Northern Pacific Ancon Urubamba	PanAmer. Pet. & Transp. Co Panama Railroad Cattle Industry. Pacific Steam Navigation Co Panama Railroad Steamship Line. Pacific Steam Navigation Co. United States Army. United Fruit Company. Pacific Steam Navigation Co Colombian Maritime Co. United Fruit Company. Panama Railroad Steamship Line. United States Shipping Board. United Fruit Company. Royal Mail Steamship Line. Chilean Steamship Line. Chilean Steamship Line. Panama Railroad Steamship Line. Pacific Steam Navigation Co. Pacific Steam Navigation Co. Panama Railroad Steamship Line. Patal States Army. Panama Railroad Steamship Line. Panama Railroad Steamship Line. Panama Railroad Steamship Line.	November 30. December 1. December 3. December 3. December 3. December 3. December 3. December 3. December 4. December 4. December 4. December 5. December 5. December 5. December 6.	November 30. November 30. November 30. December 6. December 2. December 3. December 4. December 4. December 4. December 6. December 6. December 6. December 6.	2,109 682 193 12,379 10,000 1,212 160 1,843 3,119 5	Tons. (*) (*) (*) 4,305 544 13 81 458 123 848 (*) (*) (*) 192 1,386

^{*} No cargo laded.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending December 6, 1919.

			l _	Cargo—	
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
San Juan	Pacific Mail Steamship Co	November 30.	November 30.	Tons.	Tons. 56 50
Point Lobos	Pacific Mail Steamship Co Rolph Navigation Co United States Shipping Board	December 4 December 4	December 5 December 6	137 68 3,083	50
San Jose	Pacific Mail Steamship Co Colombian Maritime Co Pacific Steam Navigation Co	December 6 December 1 December 2	December 1 December 2	91 1	
Chile	Pacific Steam Navigation Co Colombian Maritime Co	December 4 December 4	December 4 December 5		21 13
Huasco	Pacific Steam Navigation Co Chilcan Steamship Line Peruvian Steamship Line	December 3 December 6	December 3 December 6	1	7

Bark Towed from San Francisco into Atlantic Ocean.

The 4-masted bark Golden Gate arrived at Balboa early in the morning of December 9 in tow of the tug Storm King, from San Francisco via Salina Cruz. The Golden Gate is on the way to Leith with a cargo of 3,163 tons of barley. The tug is to tow her about 300 miles offshore from Cristobal, drop her, and return to San Francisco by way of the Canal. Both vessels are owned by the Rolph Navigation and Coal Co., of San Francisco, which has used this same method of handling sailing ships several times before.

Visit of Secretary of War.

The Honorable Newton D. Baker, Secretary of War, and party, including Gen. Peyton C. March, Chief of Staff of the United States Army, and Maj.-Gen. John L. Chamberlin, Inspector General, arrived from New York on December 4, on the transport Northern Pacific, and departed on the same ship for San Juan, Porto Rico, on December 8. During his four days' visit on the Isthmus the Secretary of War made an inspection of the Canal and its terminal adjuncts, military posts, and fortifications.

Relief of Passenger Congestion on Panama Railroad Steamship Line.

Advice has been received from the United States that the congestion in traffic of Canal employees returning to the Isthmus on ships of the Panama Railroad Steamship Line having been relieved, it is possible to begin making assignments to these ships of nondependent relatives at the \$45 rate. At the time the congestion ended about 140 applications were filed on a waiting list, some dated as far back as June, but it is thought that a considerable proportion will have given up the idea of coming to the Isthmus at this time, and it is accordingly believed that those who wish to make the trip can be accommodated without further delay. The \$45 rate is not accorded on Army transports, assignments to which on Canal and Panama Railroad account are limited to employees and their dependents.

Prices of Certain Supplies.

The following are prices of supplies to individuals and companies, including the 25 per cent surcharge, and were effective December 1, 1919:

Commodity.	Unit.	Price.
Brass, bar	Lb.	\$0.50
Brass, sheet.	Lb.	.75
Bronze, Tobin.	Lb.	.4375
Cement, at Panama:	D	1.1925
Department of United States Government (includes surcharge and bags)	Bag Bag	.085
Credit for empty bags returned. Individuals and companies (includes aurcharge and bags)	Bag	1.765
Credit for empty bags returned	Bag	25
Cement, at Colon:	Dag	.20
Department of United States Government (includes surcharge and bags)	Bag	1.0475
Credit for empty bags returned	Bag	.085
Credit for empty bags returned. Individuals and companies (includes surcharge and bags)	Bag	1.58
Credit for empty bags returned.	Bag	.25
Charcoal.	Cwt.	.9375
Copper, bar.	Lb.	.4375
Gasoline, in drums (motor grade)		.4375
Lead, sheet	Lb.	.125
Lead, pig. Lumber, yellow pine or fir (except ceiling).	Lb.	.10
Lumber, yellow pine or fir (except ceiling)	M ft. B.M.	81.25 92.50
Lumber, eeiling, 1" by 6" Lumber, flooring, 1" by 6" Lumber, flooring, 1" by 3" and 1" by 4" Metal, yellow. Nuts, iron, machine, hexagonal.	M ft. B.M.	92.50
Lumber, nooring, 1" by 3" and 1" by 4".	Lb.	.50
Metal, yellow	Lb.	.225
Nuts, iron, machine, nexagonal. Nuts, iron, machine, square	Lb.	.1875
Nails, common, wire.		0625
Nails, galvanized.	Lb.	.19
Oakum, Navy, apun	Lb.	.2125
Oakum, Navy, unspun		.2125
Fuel oil, at Balboa and Cristobal—in bulk:		
United States Army and Navy, and vessels operated by same.	42-gal. bbl.	*1.50
Commercial vessels and individuals and companies	42-gal. bbl.	*1.50
Individuals and companies from tank No. 116, Balboa	42-gal. bbl.	*1.54
Fuel oil, at Balboa and Cristobal—in drums or barrels:		4. 75
United States Army and Navy and vessels operated by same	42-gal. bbl.	*1.75 *1.75
Commercial vessels and individuals and companies	42-gal. bbl.	41.10
Oils, greases, and lubricants: Oil, air compressor cylinder	Gal.	.625
011	1 0 1	4375
Ow burning "Colza"	Gal.	1.375
Oil cylinder dark marine "Texas"	Gal.	.875
Oil, ammonia cylinder Oik, burning, "Colza", Oil, cylinder, dark marine, "Texas", Oil, cylinder, ice machine, steam, "Garnett", Oil, engine, "Arctic", Oil, engine, "Cetus"—in tins Oil, engine, "Cetus"—in barrels.	Gal.	1.00
Oil, engine, "Arctic"	Gal.	.7875
Oil, engine, "Cetus"—in tins	Gal.	.6875
Oil, engine. "Cetus"—in barrels.	Gal.	.5625
Oil, gas engine, "Texas," heavy—in drums. Oil, gas engine, "Ursa"—in barrele. Oil, gas engine, "Ursa"—in cases. Oil, gas, engine, "Algol"—in drums.	Gal.	.5375
Oil, gas engine, "Ursa"—in barrels.	Gal	.8125
Oil, gas engine, "Ursa"—in cases.	Gal.	.8725 .5625
Oil, gas, engine, "Algol"—in drams	Gal.	.25
Oil, kerosene—in druma. Oil, kerosene—in tins.	Gal.	3125
Oil, kerosene—in tins. Oil, linseed, boiled.	Gal.	2.1875
Oh, linseed, boned. Oh, linseed, raw.	Gal.	2.5625
Oil, locomotive, engine.	Gal.	.35
Oil, lard		2.375
Oil, lard. Oil, marine engine, "Gargoyle".	Gal	1.125
**** 1		

Commodity.	Unit.	Price.
Oil, marine engine, "Atlas"	Gal.	\$0.625
Oil marine dark cylinder "Versum" W I	Gal	1.125
VII. marine, engine. "Dolphin".	Gal	4375
	Gal	75
Oil, "Mineral Seal"	Gal	.3125
Oil, nonliquid	Lb	10
Url, stationary engine	Gal.	.375
Uil, sperm	Gal.	2.875
Oil, signal	Gal.	1.375
Oil, valve	Gal.	50
Oil, car	Gal.	.225
	Гр	.20
Wax, lamp	L)	.1125
Grease, black, gear. Grease, yellow. cup. No. 3	Lb	.075
Grease, yellow, cup, No. 3	Lb	.125
Grease, yellow, cup, No. 5.	Lb	. 1375
Grease, rod, special. Grease, tunnel, bearing.	Lb	.225
Tallow	Lb Lb	.20
Turpentine	Gal.	2.50
Turpentine substitute	Gal.	.4625
Vaseline	Lb	.4025
Paint, lead, white, dry	Lb	.125
Paint, lead, white, in oil.	Lb.	.125
Paint, zinc, white, dry	Lb.	225
Paint, zinc, white, in oil	Lb.	.1875
Paint, zinc, white, in oil. Paint, zinc, white leaded, 35 per cent in oil.	T _t b	.1875
raiveta	Lb.	.10
Kope, Manila, 1" diameter	Cft	.75
rope, Mania, 1" diameter	Cft	1.625
KODO, Marria, 4" diameter	Cft	2.50
BUDE, MININIS. 1" DISTRETER	Cft	4 0625
Rope, Manila, * diameter.	Cft	4.375
Rope, Mania, †" diameter	Cft	6.25
RUDE, MARIIA. 11 diameter	Cft.	7.50
Rope, Manila, 12" diameter.	Cft.	12.1875
teopo, Mania, 17 (nameter	Cft.	16 5625
nobe, Manila, 17" diameter	Cft	26.25
Rope, Manila, 2" diameter.	Cft	31.25
nope, Manna, 23" diameter	Cit.	47.50
	Cft.	77.50
Rope, Manila, 3½" diameter	Uft.	102 50
	Lb.	.0625
Steel spring Steel gold rolled ad	Lb.	.1375
Steel, cold rolled, rd	Lh.	.0875
Steel, sheet Steel, structural (angles, beams, etc.)	Lb.	.0675
Tin, block.	Lb. Lb.	.0675
Tin, banca	Lb.	75 1 10
Tin, sheet	Lb.	25
Washers, cut	Lb.	.10
Waste, colored	Lb.	.2125
Waste, white.	Lb.	.2123
Waste, white. Zinc, boiler plate, \(\frac{4}{''} \) by \(\frac{6}{''} \) by \(\frac{12}{''} \).	Lt.	.15
	LIV.	.10

Item now on hand purchased at a cost over the price shown above will be given the purchase price.

Act of Congress.—Entrance of Aliens into the United States.

The Panama Canal, Balboa Heights, C. Z., November 28, 1919. Circular No. 600–68:

The Act of Congress quoted below is published for the information of all concerned

CHESTER HARDING,

Governor.

An Act To regulate further the entry of Aliens into the United States.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That if the President shall find that the public safety requires that restrictions and prohibitions in addition to those provided otherwise than by this Act be imposed upon the entry of aliens into the United States, and shall make public proclamation thereof, it shall, until otherwise ordered by the President or Congress, be unlawful—

(a) For any alien to enter or attempt to enter the United States except under such reasonable rules, regulations, and orders, and subject to such passport, visé, or other

limitations and exceptions as the President shall prescribe;
(b) For any person to transport or attempt to transport'into the United States another person with knowledge or reasonable cause to believe that the entry of such other person is forbidden by this Act;

(c) For any person knowingly to make any false statement in an application for a passport or other permission to enter the United States with intent to indice or secure the granting of such permission, either for himself or for another

(d) For any person knowingly to furnish or attempt to furnish or assist in furnishing to another a viséed passport or other permit or evidence of permission to enter, not issued and designed for such other person's use;

(e) For any person knowingly to use or attempt to use any viséed passport or other

permit or evidence of permission to enter not issued and designed for his use;

(f) For any person to forge, counterfeit, mutilate, or alter, or cause or procure to be forged, counterfeited, mutilated, or altered, any passport, visé or other permit or evidence of permission to enter the United States;

(g) For any person knowingly to use or attempt to use or furnish to another for use any false, forged, counterfeited, mutilated, or altered passport, permit, or evidence of permission, or any passport, permit, or evidence of permission which, though origi-

nally valid, has become or been made void or invalid.

SEC. 2. That any person who shall willfully violate any of the provisions of this Act, or of any order or proclamation of the President promulgated, or of any permit, rule, or regulation issued thereunder, shall, upon conviction, be fined not more than \$5,000, or, if a natural person, imprisoned for not more than five years, or both; and the officer, director, or agent of any corporation who knowingly participates in such violation shall be punished by like fine or imprisonment, or both; and any vehicle or any vessel, together with its or her appurtenances, equipment, tac'le, apparel, and furniture, concerned in any such violation, shall be forfeited to the United States.

SEC. 3. That the term "United States" as used in this Act includes the Canal Zone

and all territory and waters, continental or insular, subject to the jurisdiction of the

United States.

The word "person" as used herein shall be deemed to mean any individual, partnership, association, company, or other unincorporated body of individuals, or corporation, or body politic.

Sec. 4. That in order to carry out the purposes and provisions of this Act the sum

of \$600,000 is hereby appropriated.

SEC. 5. That this Act shall take effect upon the date when the provisions of the Act of Congress approved the 22d day of May, 1918, entitled "An Act to prevent in time of war departure from and entry into the United States, contrary to the public safety," shall cease to be operative, and shall continue in force and effect until and including the 4th day of March, 1921.

Received by the President, October 29, 1919.

[NOTE BY THE DEPARTMENT OF STATE—The foregoing act having been presented to the President of the United States for his approval, and not having been returned by him to the house of Congress in which it originated within the time prescribed by the Constitution of the United States, has become a law without his approval.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286). Age limits do not apply to persons entitled to preference because of military or naval service:

Scientific assistant, Lighthouse Service (male and female); \$1,500 a year; January 11, 1920; No.

form 1312; age, 18 years but not 35 years.

Aid, Division of Reptiles (male and female); \$1,200 a year; January 11, 1920; No. 6; form 1312;

Senior cost accountant (male and female); and junior cost accountant (male and female); No. 155amended, supplemental. This examination closed December 2, 1919.

Minor clerk, Bureau of the Census (male and female); No. 477-amended, supplemental; January
7, 1920; age, between 18 years and 45 years.

Artist (male and female); \$1,800 a year; December 30, 1919; No. 465-amended; form 1312; age,

years and over. *

Special assistant, Legal Unit (male and female); \$1,800 to \$3,500 a year; December 16, 1919; No. 537-amended, supplemental.*

Specialist in cotton classing or marketing (male and female); \$2,700 to \$3,600 a year; December 23, 1919; No. 561; form 2118; age, 25 years but not 50 years.*

Mechanical engineer, qualified in internal combustion engine work (male and female); \$3,000 to \$3,600 a year; December 23, 1919; No. 568; form 2118; age, no limits.*

Vocational adviser (male and female); \$1,500 to \$3,000 a year; December 30, 1919; No. 569; age, 21 years but not 65 years.*

21 years but not 65 years.* Civil engineer (male); \$2,500 to \$3,000 a year; No. 574; age, 25 years but not 40 years; form B. I. A. 2.†

Junior gas chemist (male and female); \$1,500 a year; No. 576; form 1312; December 30, 1919; age, under 40 years.*

Mechanical and electrical engineer (male); \$2,500 to \$3,000 a year; No. 574; age, 25 years but not

Wine inspector (male and female); \$2,000 to \$3,500 a year; No. 577; December 30, 1919; form 1312; age, 25 years but not 50 years.*
Field assistant in insect control (male and female); \$900 to \$1,800 a year; No. 578; form 2118;

Mechanical draftsman, Patent Office (male and female); \$900 to \$1,800 a year; No. 578; form 2118; age, under 60 years.†

Mechanical draftsman, Patent Office (male and female); \$1,000 a year; No. 582; December 30, 1919; form 1312; age, 18 years and over.*

Cotton technologist (male and female); \$3,000 to \$4,000 a year; December 30, 1919; form 2118; age, 30 years but not 45 years.*

Physician (male and female); Physician (male and female and female); Physician (male and female and female and female and fem

Physician (male and female); Panama Canal Service, \$150 to \$200 a month; January 11, 1920; form 1312; age, 22 years but not 31 years. Bacteriologist (male and female); \$130 to \$180 a month; January 6, 1920; form 1312; age, 18

years and over.* Junior bacteriologist (male and female); \$70 to \$90 a month; January 6, 1920; form 1312; age, 18 years and over.*

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business

†Nonassembled. Applications will be received at any time until further notice.

Deceased and Insane Employees.

The estates of the following deceased or insane employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claim: should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by-	Date of death.
Daniel E. Barkley alias Barclay	21825 35932	Jamaica Jamaica	ColonLa Boca	Supply Dept Coaling Station	November 18, 1919. November 17, 1919.

INSANE.

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of commitment.
Edwin Young	143611	Jamaica	Colon	Building Division	March 28, 1918.

Danger in Filtering Gasoline through Chamois Skin.

The Physiologist of the Division of Municipal Engineering has transmitted to THE PANAMA CANAL RECORD the following reply received from an inquiry which he addressed to the Bureau of Mines:

Your letter of September 20, asking for information on the dauger of filtering

gasoline through chamois skin has been received.

The possibility of gasoline generating static electricity on being poured through chamois skin has been well substantiated by a number of accidents in different parts of the country. One of the Bureau chemists was present at a gasoline filling station when one of these fires occurred, and there is no question but that the fire originated from static electricity. It is therefore unsafe to use chamois skin for filtering gasoline. The only advantage of this filtration would be to remove sediment and water from the gasoline, and this can be accomplished by the use of a properly constructed storage tank in practically all cases. Water and sediment will separate out of gasoline in a very few hours, and storage tanks for gasoline are at present being constructed so that the outlet for the gasoline is two or three inches above the bottom of the tank, thus allowing the water and sediment to settle out. At intervals of three to six months the tanks are drained and the water and sediment which have accumulated are removed. If this procedure is followed there is no need of using any form of strainer for the gasoline.

It undoubtedly would be found true that atmospheric conditions and the grade of gasoline would have some influence on the fire risk, but the use of chamois skin

is certainly a dangerous and unnecessary practice.

Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."
The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."
Mail for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

Official Circulars.

Act of Congress.-Deficiency Appropriation,

THE PANAMA CANAL, EXECUTIVE OFFICE.

BALBOA HEIGHTS, C. Z., November 26, 1919. CIRCULAR No. 600-67:

The extract from an Act of Congress quoted below is published for the information of all concerned.

CHESTER HARDING,

Governor.

AN ACT Making appropriations to supply deficiencies in appropriations for the fiscal year ending June 30, 1920, and prior fiscal years, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the following sums are appropriated out of any money in the Treasury not otherwise appropriated, to supply deficiencies in appropriations for the fiscal year ending June 30, 1920, and prior fiscal years, and for other purposes, namely:

FANAMA CANAL.

For civil government of The Panama Canal and Canal Zone, salaries of district judge \$7,500, district attorney, \$5,000, marshal \$5,000, and for gratuities and necessary clothin; for indigent discharged prisoners, \$150,000, to continue available with grounds. able until expended.

SEC. 6. That this Act hereafter may be referred to as the "First Deficiency Appropriation Act, fiscal year 1920."

Approved, November 4, 1919.

Services of Employees as Jurors and Witnesses.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., November 26, 1919. CIRCULAR No. 701-1:

1. An employee of The Panama Canal or Panama Railroad Company who attends a court of the Canal Zone as a juror or as a witness in a criminal case, or who testifies before a court-martial in the Canal Zone or who serves on a coroner sjury or as a witness in a coroner's case, is entitled to the time actually present in court and the necessary time in traveling to and from court, taking into consideration the means of transportation available, without charge against such employee's leave or compensation.

compensation.

2. In like manner, an employee summoned as a witness for The Panama Canalor Panama Railroad Company, or other branch of the United States Government, in any civil suit shall also be entitled to his time without loss of leave or compensation. If summoned as a witness in any civil suit for the benefit of any other interest than those named, the time absent from his regular work shall be charged. time absent from his regular work shall be charged to the employee. An employee shall receive no pay for time consumed in traveling to and from court which is not a portion of his regular working

hours 3. Magistrates, clerks of district courts, coroors, judge advocates or trial officers of the court in the case of court-martial, will issue a certificate of attendance, in duplicate, in accordance with the facts in each case, showing the time the employee is actually in attendance, forwarding the original certificate to Bureau of Payrolls at Balboa Heights and delivering duplicate to the employee for presentation by him to his immediate superior. to presentation by him to his immediate superior.

4. Employees who are attending court and and are entitled to time in accordance with the above instructions are to be shown as absent in the time book, by the timekeeper or the foreman who keeps the time, and the clerk who makes out the time roll will, upon presentation of proper certificate, credit the employee on the time roll with the actual time shown on the certificate and the time consumed going to and from court, at-taching the certificate to the time roll as his authority for allowing this time. No explanation of this time shall be given on the payroll.

CHESTER HARDING,

Governor.

Acting General Secretary, Bureau of Clubs and Playgrounds.

THE PANAMA CANAL. **EXECUTIVE OFFICE**

BALBOA HEIGHTS, C. Z., December 8, 1919. To all concerned—Effective this date, and during the absence on leave of Mr. T. S. Booz, Mr. A. J. Scott will act as General Secretary, Bureau of Clubs and Playgrounds, in addition to his regular duties.

C. A. MCILVAINE, Executive Secretary.

Misdirected Letters.

BALBOA HEIGHTS, C. Z., December 8, 1919. The following insufficiently addressed letters have been received in the office of the Director

of Posts, and may be o btained upon request of the addressees. Requests may be made by telephone, calling No. 182, Balboa:

Archie, Frank Baumgardner, Miles Bello, John, Box 206 Bovee, Elmer Brodtman, Mrs. M. A. Brown, Mrs. M. Mc-Neil Brown, V. R. Cullen, Joe M., Box

636 Cummings, E. O. II. Dedementie, Walter Clove, John W.
Kilfoyle, Charles
Knapp, Victoria
Leonard, Miss Ruth
McLean, Miss Margaret
Mertz, Henry A.
Redmond, Glenn William
Reynolds, Mrs. F.
Samuels, H. A.
Shirley, W. H., Box 641
Welter. Theodore
Wickham, Rhemus Wickham, Rhemus

Examination for Colored Teachers.

An examination will be held at the office of the Superintendent of Schools, Administration Build-Balboa Heights, Friday and Saturday, Januing, Balboa Heights, Friday and Saturday, January 9 and 10, 1920, for colored teachers who desire to qualify for consideration for teaching positions in the Canal Zone colored schools as openings may occur from time to time.

All interested should forward their credentials and applications for taking examination to the Division of Schools, Balboa Heights, C. Z., and be on hand for the examination on those two days, as another examination for this purpose is not

as another examination for this purpose is not being planned for this school year.

Stages of the Chagres and the Lakes.

The maximum elevations of the Chagres River, Gatun Lake, and Miraflores Lake, in feet above mean sea level, during the two weeks ending at midnight of Saturday, December 6, were as fol-

	Chagre	Chagres River		Gatun Lake		
Date	Vigia	Alha- juela	Gam- boa	Gatun	Mira- flores Lake	
Sun., Nov. 23	128.05	92.97	87 12	87.05	53.85	
Mon., Nov. 24	127.55	92 79	87.27	87.10	53.94	
Tues., Nov. 25	127.35	92 12	87.13	87.05	54.30	
Wed., Nov. 26	127.21	92.07	87.15	87.04	53.95	
Thurs., Nov. 27	132 40	96.25	87.15	87.08	54,00	
Fri., Nov. 28	130.10	95 30	87.10	87.06	53.79	
Sat., Nov. 2)	128 80	94 22	87.10	\$7.06	53.77	
Sun., Nov. 30	128.50	93.43	87.18	87.11	54 60	
Mon., Dec. 1	129.00			87.06	54.29	
Tues., Dec. 2	129.50			87.11	54.12	
Wed., Dec. 3				87.16	54.12	
Thurs., Dec. 4				87 11	54 49	
Fri., Dec. 5	132 80		87.06	87.02	54 21	
Sat., Dec. 6	128.80	93.57	87.10	87 01	54 00	
Height of low water to nearest foot.		91.0				

Hotel Aspinwall Launch Schedule.

Following is the schedule of laur ch service maintained by the Supply Department between Balboa and the Hotel Aspinwall on Taboga Island: Daily

2411).	
Leave Port Captain's boat landing, near dock 19	10.00 a, m.
Leave Taboga	8.00 a. m.
Sundays and holidays.	
Leave dock 19, Balboa	10.00 a. m.
Leave Taboga returning	11.30 a. m.
Leave dock 19, Balboa	4.30 p. m.
Leave Taboga returning	6.00 p. m.
Saturdays and days preceding holidays.	
Leave dock 19, Balboa	10.00 a. m.
Leave Taboga returning	11.30 a. m.
Leave dock 19, Balboa	6.00 p. m.
Returning from Taboga the following day	8.00 a. m.
Fares (each way)—Employees, 35 cents; nonemployees, 60 cents;	children of
employees over 6 and under 12 years old, 25 cents; of nonemployees, 40	cents.

by 9.30 a. m., addressed to themselves, care of Hotel Aspinwall. Freight will be transported on the a. m. trip on Mondays, Thursdays, and Saturdays. For further information address Manager, Hotel Aspinwall, Taboga, via Balboa, C. Z.

COMMISSARY NOTES.

Hotel patrons desiring to send trunks should arrange to have them delivered at the launch landing

Ladies' Blouses.

Philippine hand-embroidered, hand-sewn white blouses, made of fine material and in a number of beautiful patterns, will be placed on sale in the commissaries this week at \$5.35 each.

Linen.

There is now on sale at Ancon, Balboa, Cristobal, Gatun, and Pedro Miguel commissaries a shipment of liners, part of those now on order in England. Another shipment is expected to arrive before Christmas. Of the lot on hand, special bargains are offered in separate cloths.

Foodstuffs from U.S. Navy.

There were received on the steamship Panama, foodstuffs purchased from the U.S. Navy, consisting of the following: 300 cases apricots, 300 cases string beans, 500 cases corn, 500 cases peas, 200 cases pineapple, 200 cases prunes, 500 cases tomatoes, 300 cases peaches, 100 cases pears, 1,500 cases milk, 100 kegs mackerel, 20 barrels vinegar, 2,000 bags rice.

Ribbons.

There has recently been received by the Commissary Division a shipment of ribbons ranging in prices from 35 cents to \$1.05 per yard. Inasmuch as these comprise Dresden flowered, Scotch plaid, and combination satin taffeta ribbons, they are desirable, not only for hair bows and sash ribbons, but for use in the making of bags and other accessories.

Serviceable Christmas Gifts.

Among the items recently received by the Commissary Division, which will be of considerable interest to the Christmas trade, are electric percolators, two styles, at \$12.85 and \$11.70; tea-ball teapots, silver-plated, at \$3.60, silver-plated olive dishes and bonbon dishes, at \$3.40 and \$3.25, respectively, mayonnaise sets, two styles, at \$3.60, round nickle-plated trays at \$2.30, and mahogany trays at \$4.50, \$4.85, and \$6.30. These are now on sale at Ancon, Balboa, Cristobal, Gatun, and Pedro Miguel commissaries.

Smoker's Accessories.

Of particular interest to the shopper who is desirous of obtaining some gift for the man of the family is the announcement that a shipment of smoking accessories has been received and placed on sale. These consist of tobacco jars of glass, with mahogany bases and decorated brass tops, priced at \$3.90, ash trays in a good variety of styles and colors, ranging in prices from \$1.20 to \$8.95, and smoking sets consisting of cigarette jars and ash trays on mahogany bases, priced at \$5.35. Ancon, Balboa, Cristobal, Gatun, and Pedro Migue! commissaries now have these for sale.

THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL,

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address The Panama Canal Record, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C.



Entered as second-class matter February 6, 1918, at the Post Office at Cristobal, C. Z., under the Act of March 3, 1879.

Volume XIII. Balboa Heights, C. Z., December 17, 1919. No. 18.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending December 13, 1919.

				Cargo—				
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.			
Middlebury	Panama Railroad Cattle Industry Chilean Steamship Line United States Army Royal Dutch West India Mail Pacific Mail Steamship Line Pacific Mail Steamship Line Pacific Mail Steamship Line Panama Railroad Steamship Line.		December 7 December 8 December 10 December 13 December 10 December 11	196 520 7 993 25	Tons. 7 7561 2 432 61 118 65 3,465			
Cauca Gen. Geo. W. Goethals Carrillo. Atenas. Jamaica. Imperial. Middlebury. Allianca. Urubamba.	Pacific Steam Navigation Co	December 9 December 10 December 11 December 11 December 11 December 12 December 12 December 13	December 11 December 11.	1,090 2,001 1,121 2 632 1,616 450 2,226}	129			

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending December 13, 1919.

				Cargo-				
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.			
San Jose	Pacific Mail Steamship Company. Pacific Metals Corporation. United States Navy. Norway-Pacific Line Pacific Steam Navigation Co.	December 8 December 9	December 11 December 10	200	Tons. 531			
Laura C. Hall	Pacific Metals Corporation				23			

Distribution of Cargo in October.

In the publication last week of the Governor's report to the Secretary of War of Canal operations in October, tables showing the ports from which cargo was shipped and to which it was destined were omitted to make room for other matter, and are published this week, on pages 236, 237, 238, and 239.

The "Advance" Aground Off Aux Layes.

The steamship Advance of the bound of teamship Line went ashore off Aux Cayes, on the familie, on December 11, and has not been floated. In the line, sailing from Cristolal, December 12, towned to make for the Advance, and the line of the same Verk, has been ordered to make for the Advance, and the line of the same verk, has been ordered to make for the Advance, and the line of the same verk, has been ordered to make for the Advance, and the line of the same verk, has been ordered to proceed with all speed from Habana to Anx Cayes. The Advance has been plying between New York and Haitian parts.

Postal Address of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight, December 13, 1919.

THROUGH THE CANAL-ATLANTIC TO PACIFIC.

Canal	tonnage	Net	i	4,999	3.374		400	4,690 5,629	1,741	5,066		3,879		- 63		4.097		5,532	n eta	C3 +	4.193		3,601	ري م			
PanamaCanal	tonn	Gross	2,805	6,567	5.257	7,285	4,508	6,529	2,848	7,106	5,271	5,169	9,249	100	5,520	5,352	5,788	7,146		2,987	6,173		4,825	8,108	5,018	5,694	
	Tons		2,844	6,850		8,211	756	6,963	:	:	6,561	5,400	9 975		6,517			7,000		က်	7.135	-	5,900	10,388	732	3,042	
	Cargo		General	Steel and acid.		Coal	General	General				Case oil	General		Steel, cotton	CORE and Beneral		General		Coal	Crude oil		Sulphur		General	General	
	For		San Francisco.	Honolulu	Pisagua	Honolulu	Valparaiso	Yokohama	-	Antofacasta	Kobe	Hongkong	San Francisco.	Caleta Buena.	Corrigal	Calcta Colosa.	Iquique	Pearl Harbor.	Mejillones	Balboa	Pisagua	San Diego	Buenaventura	San Francisco.	Callao	Valparaiso	
	From		New York	New York	Sydney, N. S.	Norfolk	Cristobal	New York	Pernambuco	Norfolk	Savannah	Rottordum	Baltimore	Bilbao	Baltimore.	Baltimore	London	Norfolk	Dunkirk	Nortolk	Tuxpan.	Newport, R. I.	Cristohal	Tampico	Cristobal	New York	
	Salt water draft		23.1	24.6	17.0	27.0 16.0	22.3	30.6	16.0	15.7	28.1	15.0		13.0	23.6	17.0	16.1	26.6	16.0	26.3	26.0	21.6	10.01	29.0	0.01	28.8	
	Beam		43.7	54.3	52.5	55.0 42.0	24.5	56.0	43.6	59.1	48.0	27.0	44.0	46.0	49.0	51.0	54.5	53.0	53.7	43.9	53.4	18.0	25.0	55.0	31.0	51.6	
	Length Beam water		248.6	410.5	375.0	277.0	379.7	425 0	251 0	460.5	385 0	410 0	289.0	340.0	345.0	385.0	400.0	420.5	407.7	247.0	411.6	385.5	81.0	471.0	265.0	360.2	
	Libe		United States Shipping Board	United States Shipping Board	Lowden Connell & Company.	Rolph Nav. and Coal Co.	South American S. S. Line Independent S. S. Cornoration	Osaka Shosen Kaisha	American-Hawaiian Line	Brazilian Government	Nippon Yusen Kabushiki Kaisha.	J. Christensen.	Pacific Mail Steamship Co	Ricardo Ortis.	Meiji Kaiun Kaisha.	Garland Steamship Company	New Zealand Shipping Co	United States Shipping Board	American-Hawaiian Line	Garland Steamship Company	Standard Oil Company.	United States Navy Australind Steamshin Company	Pacific Metals Corporation.	Union Oil Company	Uruguayan Government	W. R. Grace & Company	
	Nationality		American	American	British		Chilean		American	Brazilian	Japanese	a deca	-40	Japanese.		-4-	British		American			British		American		American	(c) Power schooner. (d) Cruiser.
Cleared for sea	Tuol	I	7.28	18.17	14.50	1	21.57 12.50	21.25	15 35	21.25	16.15	17.08	18.05	19.20	7.26	18.34	20.00	20.51	13.12	10.01	20.10	6.33	9.00	19.53		21.45	er. (
1 -	Oay			2	00 00	- :	n	∞ ≎	, C	6	22	9	200	10	=:	==	===	=======================================	2 4	121	23.0	14:		2 5		133	choor
Completed	mol		15.47	10.40	12.48	21.15	17.55	19.41	14.5	18.37	15.33	16.15	17 23	18.22		17.28	19.06	20.01	12.48	20.19	14.42	17.24	17.14	19.40	19.35	20.5	ower 8
Com	VsO				0 K			000			10	5 10	01	10	3 10	11	111	110	2 62	121	123		13			0 13	(c) P.
Entered	inol	I	20.20	15.28	6.20	10.18	10.33	11.47	6.40	11.00	6.05	6.2	6.4	10.20	11.2	200	6.40	7.5	6.1	13.15	6.15	7.5	80.1	0 0	10.53	٦	
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Arrived at port	IuoI	1 1	8.20		6.30	9.55	16.	= 0	·	17	17.11		10.55		10	01	17	130	22	9;		12	15	15.57	15.	6.62	(b) Sailing ship.
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	Ship		Nicolaos	Roamer (a)	WabanaDuquesne	James Rolph (b)	Intan	Amur Maru	Ohioan	Parnahyba	Cuzeo	August	Mercedes	Kinkasan Maru	Meike Maru	Avaha Maru	Whakatane	Aniwa	Lake Onawa.	Grayson	Buffalo, II. S. S.	Atholl	Coslings	Urubamba	Uruguay (d)	Santa Luisa	(a) Launeh.

7,008 6,750 4,899 1,602 1,665 1,665 1,666 1,023	2,185 2,240 5,240 6,20 6,50 6,50 6,22 7,475 7,426 6,22 1,906 6,834 1,319
11,519 9,100 6,577 2,352 130 7,049 7,049 2,677 2,677 1,903 1,582	7,440 2,380 2,380 1,128 3,634 2,634 2,634 2,634 2,235 2,255
8,165 558 558 277 8,800 2,700 1,700 1,090	9,000 7,163 7,163 7,331 861 861 861 861 (0) 7,850 (0) 4,422 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Ballast Cotton, sugar Flour General (k) Nitrates Lumber Ballast (l) Ballast	General. Barley General. Sugar and pine. (m) General. General. General. Navy supplies. General. Navy supplies. Frozen med. gen Spruce and fir. Nitrate. Ballast. Frozen general. Frozen general. Ballast. Frozen general. Frozen general. Ballast. Frozen general.
Norfolk. Liverpool New York Cristobal Cristobal Genoa. Genoa. W. Harrlepool. Philadelphia. Cristobal.	Bergen Leith New York New York New York Cristobal Cristobal Noriola Noriola Noriola Noriola Noriola Liverpool United King Portugal Tampico Isswich, Eng. Falmouth (J). Liverpool Liverpool Noriola Nor
Balboa Taleahuano Taleahuano San Francisco Buenaventura Iguique Vancouver Seattle Balboa Guayaquil Guayaquil Balboa San Francisco	San Francisco. San Francisco. Lyttleton Honolulu Buenaventura Buenaventura Tralcabuano Bremeton Singapore Sydney Vancouver Toopilla San Francisco Portland. Portland. Port Pric. San Francisco Port Pric. San Francisco Port Pric.
22.0 16.2 16.2 16.2	22.23.0 22.23.0 22.00.0 22.00.0 22.00.0 22.00.0 22.00.0 22.00.0 22.00.0 22.00.0 20.00.00.0 20.00.0 20.00.0 20.00.0 20.00.0 20.00.0 20.00.0 20.00.0 20.
65.2 65.2 65.2 65.2 65.2 65.2 65.2 65.2	55. 2 42. 88. 0 55. 88. 0 55. 0 55. 0 56. 0 5
514.0 471.9 402.5 283.0 81.0 81.0 81.0 2267.1 2260.0 2260.0 125.6 140.3	425.4 293.3 2849.0 2825.5 2825.5 2825.6 2825
Panama Railroad S. Line. British Government. United States Shipping Board Pacific Mail Steamship Co. Pacific Mail Steamship Co. Pacific Metals Corporation. French Government. United States Shipping Board United States Shipping Doar United States Army. Engr. Dept Pacific Steam Navigation Co. The Panama Canal. Rolph Navigation and Coal Co	Norway-Pacific Line Rolph Navigation and Coal Co. British India Steam Nav. Co. United States Shipping Board Federal Line Pacific Steam Navigation Co. Chilean Line Pacific Steam Navigation Co. Chilean Line Pacific Steam Navigation Co. Chilean Line Pacific Steam Shipping Board Astigaraga Sons W. Wilhelmsen Pacific Freighters Co. United States Shipping Board
American British British American British British American French French American French French French French American	17 Norwegian. 17 American. 18 Antrish. 18 Antrish. 19 Antrish. 10 British. 10 Chilean. 10 Antrish. 11 Antrichian. 12 Antrish. 13 British. 14 British. 15 Chanish. 16 Chanish. 17 American. 18 Antrish. 18 Antrish. 21 American. 22 American. 23 Antrish. 23 Antrish. 24 American. 25 Antrish. 25 Antrish. 26 Antrish. 27 American. 28 Antrish. 29 Antrish. 29 Antrish. 21 American. 21 American. 22 American.
15.40 1.06 6.13 8.16 12.09 10.06 8.05 8.05 7.17	47-41-29 821-8258 8599-9-1
18 440 10 10 14 10 14 8 8 8 2 10 12 12 12 13 15 14 0 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	71 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
99998888888888888888888888888888888888	3.3.3.3.2.2.3.3.3.3.3.3.3.3.3.3.3.3.3.3
6.42 8.48 8.48 8.23 6.23 8.09 111.30 7.30 7.30	66.11.12.12.13.13.13.13.13.13.13.13.13.13.13.13.13.
**************************************	232322222222222222222222222222222222222
14.53 18.20 18.20 17.50 17.50 15.20 11.30	22.00 22.00 22.00 22.00 22.00 22.30 23.30
24 6 6 6 7 7 11 9 9	282230431014300000000000000000000000000000
Achilles (a) Memphis Memphis Meromico San Jose Laura C. Hall(c) Ketuckian Trois Riviera. Trois Riviera. Conevasa. Gorgona (d) Storn King (d).	George Wash- ington (MS) Golden Gate (ħ). Masula. Vincent. Jamaica. Jamaica. Imperial. Videan (ē). Bolton Castle. Argyllshire. War Chariot. Bartolo. Bartolo. Bartolo. Mestmeath. John W. Wells (ħ). Bell Brook. Westmeath.

(e) Collier. (f) Dredge. (g) Tug. (h) Sail. (i) Towing sailing ship Golden Gate 300 miles offshore from Cristobal, then return to San Francisco. (j) For orders. (k) Coffee, ivory nuts, and sugar. (l) Cocca, hats, hides, and nuts. (m) Coffee, hides, nuts, and spiecs. (n) 62,750 tons. (o) 3,550,000 ft. B. M. (p) Redwood, 55,708 ft. B. M.; barley, 3,500 tons.

PORT OF CRISTOBAL.

1		orts on.	
	For	Cartagena. London. Puerto Colombia. New York and Haiti. Colombian ports. New Orleans and wayp. New York and Kingst.	mn 2.)
*DEPARTURES	Line	Panama Railroad Cattle Industry. Cartagena. George Davis & Co. Royal Dutch West India Mail Co. Puerto Colombia. Panama Railroad Steamship Line. Colombian ports. United Fruit Co. United Fruit Co. New York and Haiti.	Continued on page 239, column 2.)
	Vessels	Middlebury H. K. Hall Crijnssen Panama Carrillo Metapan Atenas	
	Date	Dec. 7. Dec. 9. Dec. 11. Dec. 11. Dec. 11. Dec. 11.	
	From	High seas. Amsterdam. High seas. New Orleans. High seas. New York via Haiti. New York via Haiti.	
*ARRIVAL8	Line	George Davis & Co. Royal Dutch West India Mail Co. High seas. H	for repairs.
	Vessels	Pec. 7. H. K. Hall Pec. 8. Crijnsean Pec. 9. C-7/10 (9) Pec. 9. C-35 (9) Pec. 9. C-35 (7) Pec. 9. C-35 (7)	Returned from high seas for
	Date	Dec. 7 Dec. 8 Dec. 8 Dec. 9 Dec. 9 Dec. 9	(9)

(q) Returned from high seas for repairs.

Distribution Among Ports of Cargo Passing Through the Canal from Pacific to Atlantic, October, 1919.

Науте, Етапсе.	3,603
Habana, Cuba.	2,357
,xslifsH .S.N	11,200
Grimsby, England.	1,721 2,094 5,388
Glasgow, Scotland.	11.944 440.11
Ghent, Belgium.	4,470
Dunkirk, France.	8,426
Cristobal, C. Z.	6855 6,053 1,066 8 3,598 8 3,598 11,154 11,136 11,316
Cienfuegos, Cuba.	1,724
Cardiff, Wales.	1,529
Boston, Mass.	3.115
Birkenhead, Eugland.	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Belfast, Ireland.	1,619
Baltimore, Md.	[1, 919]
Avonmouth, England.	1,579
	6,500
Amsterdam, Nethorlands.	10,01
Amsterdam, Vietnorlands, Vietn	Aberdeen, Wash, Antofagasta, Chile Astoria, Oreg. Auskrain, Oreg. Auskrain, Oreg. Auskrain, Colombis Buenaventura, Colombis Colombis, River, Wash Coronel, Chile Colombis, River, Wash Coronel, Chile Grayawan, Chile Markiteo, New Zealand, Markiteo, New Zealand Markiteo, Wash Dort Mapier, Australia New Westmirster, British Columbia New Westmirster, British Columbia Salayerry, Pac. Balayerry, Pac. Balayerry, Pac. Balayerry, Pac. Balayerry, Australia Salayerry, Pac. Taland, Chile Tacoma, Wash Taland, Chile Tacoma, Wash Taland, Chile Tacoma, Wash Taland, Chile Tacoma, Wash Victoria, British Columbia Wellington, New Zealand

Distribution Among Ports of Cargo Fassing Through the Canal from Pacific to Atlantic, October, 1919.—Continued.

,lataT	8,147 1,506 1,
Wilmington, N. C.	2.802 2.802 4.767
Valencia, Spain.	2,875
Southamp- ton, England.	1,609
Savannab, Ga.	2,900
Rotterdam, Netherlands.	7,350
Queenstown, Ireland.	2,209 6,900 6,900 12,536 2,086 23,731
Philadelphia,	3,958 4,200 8,158
Nuevitaa, Cuba.	1,988
Norfolk, Va.	77,483
New York,	2,289 3,117 3,117 2,200 2,468 9,492 6,600 9,900 9,900 12,4,680 12,480 1
New Orleans, La.	20 4 150 150 150 150 150 150 150 150 150 150
Nantes, France.	4,150
London, England.	2,690 25,566 25,566 6,080 6,080 6,080 4,466 4,370 70,464
Liverpool, England.	1,639 13,934 13,934 9,931 9,931 5,000 6,308 61,388
La Pallice, France.	8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Hull, England.	8,006 3,500 11,506
From -	Aberdeen, Wash Antofagasta, Chile Antofagasta, Chile Astoria, Orge, Aukland, New Zealand Aukland, New Zealand Bunavventura, Colombia Columba River, Wash Coronel, Chile Grays Harbor, Wash Grays Harbor, Wash Grays Harbor, Wash Guayacan, Chile Levitae, Marail Levitae, Silands Mariliteo, New Zealand Marailiteo, New Zealand Marailiteo, New Zealand Marailiteo, New Zealand Marailiteo, Wash Maniliteo, Wash Port Napier, Australia Port Angeles, Chile Salayerry, Per Chile Salayerry, Per Chile Salayerry, Per Chile Salayerry, Per Chile Talenhano, Chile Talenhano, Chile Talenhano, Chile Talenhano, Chile Talenhano, Chile Tocopilla, Chile Talenhano, Chile Vancour, British Columbia Wellington, New Zealand

Distribution Among Ports of Cargo Passing Through the Canal from Atlantic to Pacific, October, 1919.

Manila, Philippine Is.				3,000			3,000	.lstoT	6,540 6,000 6,784	5,000 10,549 920	1,500	7,049	11,402
Los Angeles, Cal,		<i>*</i> : :	2,500				2,500	Yokohama, Japan.					
Kobe, Japan.				5,879			5,879	Wellington, New Zealand.	6,540			7,000	1,500
Honolulu, Hawaii.				21,139	4,200		25,339	Valparaiso, Chile.		2,436	1,500		
Guayaquil, Ecuador.		2,586					3,506	Tumaco, Colombia.		1,082			
Guayaean, Chile.	3,370						3,370	Tocopilla, Chile,					
Cortal, Chile.			4,967				4,967	Taltal, Chile,					
Coronel, Chile.			2,276	3,952			6.228	Talcahuano, Chile.					
Chemulpo, Korea.				126			5,954	Tabiti, Society Is.					: :
Champerico, Guatemala.		794					794	Tacoma, Wash.		: :			1,402
Callao, Peru.		1,930		1,511			3,441	Shanghai, China.	6,784	: :			
Buena- ventura, Colombia.		1,721					1,721	San Fran- cisco, Cal.	630	3,000	250		
Brisbane, Australia.				6,900			6,900	Pisagua, Chile.					· ·
C. Z.				2,017		8,500	20,517	Peru.		<u>: :</u> : :		2,273	
Auckland, New Zealand.			3,926	12,728			19,054 2	New Zealand.					
Antofagasta, Chile.					21,500		,500		: : :				
From-	Avonmouth, England Baltimore, Md Baltimore, Me Extra Resumont, Frex. Christian Norway	Chistolata, Notway, Chistolata, C. Z. Genoa, Italy Gothenborg, Sweden	Hamburg, Germany Laverpool, England London, England	Newport Nows, Va. New York, N. Y. New York, N. Y. Nordolde, Va.		Tampico, Mexico	Total	From—	Avonmouth, England. Paltimore, Ald Beaumont, Tex	Christiana, Norway Cinstobal, C. Z.	Genos, Maly Gothenborg, Sweden Hamburg, Germany	Liverpool, England London, England	New Orleans, La Newport News, Va.

Dec 13..... U. S. S. Cleveland (d) United States Navy......

Amapala.

Distribution Among Ports of Cargo Passing Through the Canal from Atlantic to Pacific, October, 1919.—Continued.

.fatoT	105,565 16,786 5,954 45,111 4,200 2,400 16,428 16,428
Yokohama, Japan.	7,399
Wellington, New Zealand.	15,040
Valparaiso, Chile.	300
Tumaco, Colombia.	1,082
Tocopilla, Chile.	9,000
Taltal, Chile.	5,531
Talcabuano, Chile.	6,319
Tabiti, Society Is.	208
Тасота, Wash.	1,402
Shangbai, China.	14,911
San Fran- cisco, Cal.	9,080
Pisagua, Chile.	7,928
Peru,	2,273
.baslasa wsN	6,645
From—	New York, N. Y Norfolk, Va Savantanh, Ga Savantanh, Ga Southampton, England Tampico, Mexico

MOVEMENTS OF OCEAN VESSELS.—Continued from page 235.

		For											
	*ORPARTORES.	Line								***************************************			*DEPARTURES.
d.		Vessels											
BAL-Continue		Date										BALBOA.	-
PORT OF CRISTOBAL—Continued		From	Cartagena.	Kingston.	Kingston.	Dort Arthur	Cartagena.	High seas.	New York.	nigh seas.	ine tender:	PORT OF BALBOA.	
	*ARRIVALS.	Line	United Fruit Company		:	United States Shipping Board	Panama Railroad Cattle Industry., Cartagena.	French Government High seas.	Panama Kailroad Steamship Line.	American-manan Line	repairs. (r) Submarines. (s) Submarine tender.		*ARRIVALS.
		Vessels	Atenas	R-24, 22, 21, and 37(r)	U. S. S. Fagle (s)	Fort Sill	Middlebury	C-44 (q)	Allianea	Nentuckian (q)	(q) Returned from high seas for re-		
		Date	Dec. 11	Dec. 11	Dec. 11	Dec. 12	Dec. 12	Dec. 12	Dec. 13	Dec. 15	(q) Returne		

Dec. 7. Lake Elkwater | United States Shipping Board | Coquimbo. Dec. 10. ... | U. S. S. Cleveland (d) | Umited States Navy | Amapala.

*Other than ships passing through the Canal.

Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

A New Issue of Metal Checks.

A new metal check, octagonal in shape, is being issued to all employees of The Panama Canal and the Panama Railroad and change of records will be effective January 1, 1920.

December pay receipts will, however, bear the old metal check numbers and employees should retain their old metal checks until

after next pay day.

Weather Conditions in November, 1919.

The rainfall for the month was decidedly below normal, Taboga Island and the Quipo station on the Trinidad River being the only stations where an excess occurred. Many of the stations had the lowest November rainfall for years of record. Totals ranged from 3.50 inches at Gamboa to 15.35 inches at the Quipo station The greatest amount of rainfall on any one day was 2.71 inches, at Pedro Miguel on November 30.

The estimated rainfall over the Gatun Lake watershed was 9.60 inches, compared

with a 9-year mean of 14.97 inches, and over the Chagres River basin above Alhajuela

it was 9.15 inches, as compared with an 18-year mean of 18.41 inches.

The air temperature was approximately normal everywhere except at Colon, where it was above normal. The relative humidity and daytime cloudiness were below normal, while the evaporation and temperature of the sea were generally above normal. The atmospheric pressure was above normal on the Pacific Coast and below on the Atlantic, while the wind movement was just the reverse.

A number of fogs were observed at interior stations, all of which lifted or were

dissipated by 8.30 a. m.

Three seismic disturbances of close origin were recorded at Balboa Heights during the month, 2 on the 1st and 1 on the 10th. The quake recorded on the evening of

the 1st was of sufficient intensity to be felt locally.

Gatun Lake hydrology.—Mean elevation of Gatun Lake was 86.81 feet above sea level; maximum 87.11 feet, on the 30th; minimum 86.30 feet, on the 1st; evaporation from Gatun Lake surface, 4.558 inches; rainfall on Gatun Lake drainage basin, 9.60 inches; total yield of Gatun Lake watershed, 7.33 inches on the watershed. The total yield amounted to 76 per cent of the rainfall.

A summary of the weather conditions for the month is given in the following table:

Temperature.						Pred	ipitatio	n.			Win	d.			
Stations.	Pressure (reduced to mean of 24 hours.)	Mean.	Maximum.	Date.	Minimum.	Date.	Mean relative humidity.	Total inches.	n aver- e.	Days with .01 inch or more.	Total move- ment (miles).	Prevailing direction.	Maximum velocity in miles.	Direction.	Date.
D. II			_												
Balboa					l i										l
	29.846		90		70		84.5		10.10		4,327	N.	32	N.E.	Nov. 21
Colon	29.844	80.0	89	Nov. 8	72	Nov. 8	80.6	6.63	21.04	22	7,197	N.	33	N.	Nov. 28
Gamboa		78.9	90	Nov.26*	68	Nov. 14		3.50	11.87	20	3.329	N.E.	26	N.E.	Nov. 21
Gatun		80.0		Nov. 8	73			7.19		25	4,463	N.	23	S.	Nov. 8

^{*} And other dates.

Average Daily Attendance by Years-Canal Zone Public Schools.

The average daily attendance at the public schools of the Canal Zone has been as follows:

School year ending June 30.	White.	Colored.	Total.
School year ending June 30. 1905 1906 1907 1908 1909 1910 1911 1911 1912 1913 1913			150 1,107 1,138 1,150 1,287 1,287 1,394.9 1,713.6 1,828.1
1915 1916 1916 1917 1918 1919 October, 1919	1,006.3 1,065.1 1,212.6 1,322.9 1,423.3 1,565.8	755.9 436.3 496.6 640.3 756.2 870	1,762.3 1,761.4 1,709.2 1,963.3 2,179.5 2,435.8

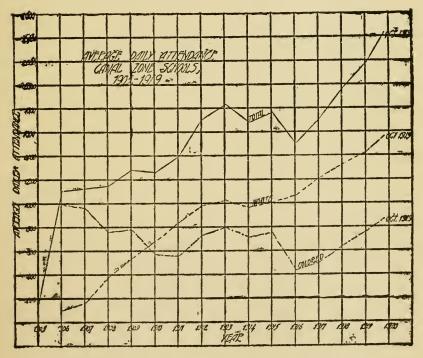
The attendance has been charted, as shown below. The Superintendent of Schools has supplied the following explanatory notes:

The average daily attendance is the average number of pupils in actual attendance at school each school day. It is found by dividing the total number of days that all pupils have attended school by the total number of days taught. It is always less than the number of pupils enrolled. For instance, the net enrollment for October, 1919, was: White, 1,657; colored, 973; total, 2,630; whereas the average daily attendance was: White, 1,565.8, colored, 870; total, 2,435.8. The difference is caused by irregular attendance.

It will be noted that the graphs for both white and colored schools for 1911, 1912, 1913, 1914, and 1915 and for 1917, 1918, and 1919 to date are very similar and almost parallel. Except for the drop in 1914, due to reduction of force consequent to establishment of the permanent organization on April 1, 1914, the line for white schools takes a constant upward direction due to children of employees becoming of

school age and to the provision of additional family quarters.

For the same cause the line for colored schools from 1916 to date takes a constant upward direction. Up to 1916 the line for colored schools takes a very erratic course. The high point for colored schools for 1906 is due principally to compulsory attendance ordinances enacted at that time by the municipalities. The slight decline in 1907 is due to decreased effectiveness of the attendance ordinances and the more marked decline in 1908 to no attempt to enforce them. The decline in 1910 is not accounted for unless it is the result of depopulation. The slight decline in 1911 is due to the Cristobal colored school being destroyed by fire on March 23, 1911. The decline in 1914 is due, in common with that in the white schools, to reduction of force consequent to establishment of permanent organization April 1, 1914. The marked decline in 1916 is due to withdrawal of the privilege of free tuition for children of alien employees not residents of the Canal Zonc.



Cable Address of The Panama Canal.

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."
Mail for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

Notaries Public.

The following is a list of the Notaries Public in the Canal Zone:

Adams, R. H., Balboa shops, August 18, 1922. Attaway, E. F., Clubhouse, Balboa, October 28,

1921. Hyde, W. H., Port Captain's office, June 14, 1920, Illwitzer, P. G., Balboa storehouse, October 11,

Kalar, John D., Port Captain's office, July 21, 1920.

BALBOA HEIGHTS.

BALBOA HEIGHTS.

Pender, W. I., Administration Building, room 237, July 30, 1922.

Hammer, H. H., Property and Requisition Bureau. March 31, 1920.

LeMire, G., post office, April 30, 1920.

Margon, C. C., Administration Building, room 237, August 8, 1920.

Murray, P. E., Claims Bureau, Administration Building, June 25, 1920.

Wang, Frank H., Bureau of Posts, April 30, 1920.

Stephens, Fred H., survey office, April 30, 1920.

Taylor, Richard G., survey office, January 8, 1921. 1921.

Vanderslice, Geo. J., Administration Building, room 237, November 6, 1921.
Wempe, Henry J., Administration Building, room 204, November 30, 1921.
Woodruff, B. C., Accounting Department, February 6, 1921.

ary 6, 1921.
Singleton, C. C., District Quartermaster's office,
April 26, 1922.

ANCON.

Boyd, Oscar S., Municipal Engineering Division, July 30, 1922.Dwelle, R. L., Clubhouse, Ancon, October 28,

Ohlson, Elmer F., Aucon Hospital, April 30,

Sheibley, F. H., District Court, November 1,

1920. Sherrit, Nye B., Ancon post office, April 21, 1921.

Williams, H. E., public stenographer, Tivoli, January 10, 1921. Woolworth, P. T., Clubhouse, Ancon, October

28, 1921.

Ilgen, W. F., station agent, December 3, 1922. PEDRO MIGUEL.

Kinaman, Frank, station agent, April 8, 1920.

Kennedy, L. F., post office, April 21, 1921. CULEBRA.

Thornton, H. C., station agent, December 3, 1922. EMPIRE.

Cooper, H. J., station agent, December 3, 1922. SUMMIT.

Wood, A. C., station agent, December 3, 1922. GAMBOA.

Freehan, P. A., station agent, December 3, 1922. MONTE LIRIO.

Collins, E. G., station agent, December 3, 1922. GATUN.

Hanrahan, T. J., station agent, December 3,

Davis, Lee, Clubhouse, Gatun, October 28, 1921. DeLange, William, Electrical Division, December 12, 1922.

CRISTOBAL.

Cheatham, W. B., District Court, October 22,

Daniels, W. L., Building Division, March 25, 1921.

1921. Dwyer, J. W., Commissary Division, September 27, 1921. Hansli, A. J., coaling plant, October 16, 1921. Hearne, Dr. C. A., quarantine office, March 22,

1920. Hulsebosch, P. C., Cristobal shops, August 28, 1921.

Jackson, J. J., Commissary Division, April 30, 1920.

MacSparran, E. S., Receiving and Forwarding Agency, October 16, 1921. McCarthy, J. S., Cattle Industry, Cristobal, February 10, 1922.

Mitchell, J. A., customs office, March 31, 1922. Rattiner, W. H., Commissary Division, February

Rattiner, V 18, 1921.

Tyson, Arthur E., Clubhouse, Cristobal, October 28, 1921. Yearick, G. L., Commissary Division, March 22,

1920. Stone, W. H., Mechanical Division, September 4, 1922.

Flood, Arthur, customs office, November 15, 1922.

Victory Bonds for Sale.

The Liberty Loan Committee is in a position to accept a limited number of additional applications for $4\frac{3}{4}$ per cent notes of the Victory Liberty Loan, to replace cancellations by employees leaving the service.

Payment at par value, plus the accrued interest, may be made in cash, either to the Collector, Balboa Heights, or the Deputy Collector, Cristobal. No applications for payroll deduction can be accepted.

Children Insufficiently Nourished.

The Chief Health Officer of The Panama Canal makes the following statement:

It is a fact worthy of consideration by every parent, that a large proportion of school children are underweight and malnourished. Investigation shows that at least a third of the children of the United States are so afflicted, and the recent physical examination of school children of the Canal Zone discloses that even the children of Government employees here are too frequently below par because of improper feeding.

It need not cost any more to feed your children the food they should have than it is now costing, and a careful attention to their requirements may result in a better balanced ration and a quick change to a condition of normal health and growth.

Employees' Free Entry Requests.

Employees in submitting request for free entry and reduced freight rate on form No. 164 sometimes type their names on the requests and neglect to sign the originals, making it necessary to return requests for written signature. The original of these requests must always be signed in ink.

Visit of the "New Zealand" and the "Uruguay."

The British battle cruiser New Zealand arrived at Balboa in the morning of December 13 from San Diego, and tied up at Pier 18 until the morning of December 16, when she started through the Canal on her way to the island of Jamaica. The Uruguayan torpedo boat Uruguay arrived at Cristobal on December 10 from Port Limon, passed through the Canal to Balboa, and tied up, clearing for the south on December 16, bound for Montevideo, via Magellan. During the stay of the vessels the personnel were entertained by the people of the Isthmus, and receptions were given aboard the ships.

Contagious Diseases to be Reported.

In connection with the appearance of cases of chicken pox, whooping cough, and other contagious diseases in the Balboa district, the Chief Health Officer calls attention to the necessity of reporting such diseases promptly. The following is quoted from the Executive Order governing this matter:

"Every physician, druggist, school teacher, clergyman, midwife, nurse, head of a family, or other person in attendance on or in charge of any one sick or injured, having knowledge of the existence in any district of the Canal Zone of any of the diseases hereinafter named, shall immediately report the same to the District Physician

or Sanitary Inspector. The diseases required to be so reported are:

Anthrax Chicken pox Cholera, Asiatic Diphtheria (croup) Dysentery

Dysentery Epidemic cerebrospinal meningitis

Erysipelas Glanders

Infectious diseases of the eye

Leprosy Malarial fever Measles Plague
Puerperal septicemia
Relapsing fever
Rubella (Rotheln)
Scarlet fever
Smallpox
Tetanus
Tuberculosis (of any organ)
Typhus fever
Typhoid fever
Whooping cough
Yellow fever

"Any person who fails to make due report, as required by this order, of any of the above-enumerated diseases shall be deemed guilty of a misdemeanor and upon conviction thereof shall be punished by a fine not exceeding \$25, or by imprisonment in jail not exceeding 30 days, or by both fine and imprisonment in the discretion of the court."

Quarters and Land at Las Cascadas.

Carpenters are now engaged in renovating buildings at Las Cascadas for rental to West Indians, and applications for assignment to quarters and land may be placed through the district quartermaster in any of the quartermaster districts. The supervision of the settlement is to be vested in the district quartermaster at Pedro Miguel, who has so far received 4 applications for assignment. The conditions of assignment are set forth in the following circular and appended form of revocable license:

Assignments to Houses in Las Cascadas.

THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., November 21, 1919.

To all concerned—For the purpose of providing homes for silver employees who are temporarily out of work, where they can support their families at a nominal expense and will not be subject to the general rules in regard to vacating quarters when employment is terminated, assignments will be made to houses in Las Cascadas under the following conditions:

1. Assignments will be made by the district quartermaster at Pedro Miguel, Applications will be accepted at any of the district quartermaster's offices and forwarded by the district quartermaster to the district quartermaster at Pedro Miguel.

2. Assignments will made in the following order:

(a) To employees with families who have been laid off within the last 6 months and

who hold satisfactory clearances.

(b) To employees who are not now occupying Panama Canal quarters but who have filed applications for quarters and who have five members in the family. Assignments will be made in accordance with date of application for regular quarters.

(c) To employees whose occupation is of a temporary nature. Assignment in this case will be made in accordance with date of application for quarters at Las Cascadas.

(d) To nonemployees who are physically capable of performing work on the Canal.

3. Before assignment is made the applicant will be required to sign a form of

revocable license, copy of which is published below.

4. Forms of revocable license may be obtained from the district quartermaster at Pedro Miguel, who will see that they are properly filled out and witnessed, and copies forwarded to the Auditor, the Executive Secretary for general files, and a copy retained for his file.

5. Assignments will be made to apartments selected by the district quartermaster. Such apartments will contain a minimum of 300 square feet of floor space. Rental will be charged at the rate of \$2.50 United States currency per month, per apartment and 50 cents United States currency per month for the rental of 1 hectare of land. Each lessee must rent and cultivate a minimum of 1 hectare of land. Additional land may be secured at a rental of 50 cents per month per hectare on condition that it will be cultivated by the lessee and that it can not be sublet to other persons.

6. All lessees will be granted commissary privileges to the amount of \$20 per month. Such privileges will be covered by special authority cards issued by the Auditor of The Panama Canal and subject to such conditions as will be made by him and

approved by me.

7. Revocable licenses will be granted to such businesses as are considered necessary by the Police Department and will be subject to regulations which will be published

8. It is expected that train service will be discontinued within the next year. After the discontinuance of this service communication with the west side will only be possible by a boat at Gamboa, or by road from Miraflores and Pedro Miguel Locks, when the military road is open for traffic.

CHESTER HARDING,

Governor.

The form of revocable license is as follows:

This revocable license made by and between the Chief Quartermaster of The Panama Canal, acting by and under the authority conferred by the Governor of The Panama Canal, party of the first part, and party of the second part, WITNESSETH:

That for and in consideration of the fact that party of the second part, agrees to perform at least 20 days labor for The Panama Canal or the Panama Railroad Company during each of any four months of any one year, or a total of at least 80 days labor per year, if and when the said second party may be called upon by The Panama Canal or the Panama Railroad Company to do so and for which labor the party of the second part is to be compensated at current rates of pay applicable to the class of labor performed by the party of the second part, and in further consideration of the monthly payment by the party of the second part to The Panama Canal of the sum of three and no/100 dollars (\$3) United States currency. The Panama Canal, party of the first part, grants the use and occupancy, under the herein revocable license, of the following-described building or part of building, and of the following-described plot of land, both stuate inor in the vicinity of the village of Las Cascadas. Canal Zone, to the said party of the second part, under the conditions, rules, and regulations hereinafter set out or to be hereafter promulated by the Chief Quartermaster of The Panama Canal and which are to be considered further and additional conditions governing the use and occupancy of the said building or part of building and plot of land by the party of the second part, to, wit: That for and in consideration of the fact that .

to wit:

1. Apartment A in the building numbered 1, situate in the village of Las Cascadas, Canal Zone, together with one (1) hectare of agricultural land in the vicinity of said village, and which 1 hectare of land is situate and described as follows:

2. The 1 hectare of land herein assigned to the party of the second part shall be fully cultivated and kept under full cultivation by him, and shall not be sublet to a third party. Additional acres of agricultural land, 1 hectare in extent, may be assigned the party of the second part upon condition that such additional land will be fully cultivated and kept under cultivation, at an additional rental of fifty cents (\$0.50) United States currency per month. In the event of cancellation of the herein license, the party of the second part shall not be entitled to reimbursement or damages for or on account of any crops or trees with which the plot or plots of land assigned to said second party may be or may have been planted.

3. The herein license covering both the use and occupancy of building or part f building and 1 hectare of agricultural land herein referred to and described is revocable upon ten (1) days' written notice to the party of the second part from the Chief Quartermaster or his representative, the district quartermaster at Pedro Miguel.

4. The monthly payment by way of rental, above referred to, in the sum of three dollars (\$3) United States currency, shall be payable monthly in advance, on the 12th day of each month, to a representative of the Collector of The Panama Canal at the police station in the village of Las Cascadas.

5. The privilege of making purchases to the extent of twenty dollars (\$20) United States currency per month at the Gamboa commissary will be granted to said party of the second part, which privilege will be extended by special authority cards to be issued by the Auditor of The Panama Canal and the Chief Quartermaster and under such rules and regulations as may be formulated by them.

6. The apartment occupied by the party of the second part is to be kept in good condition and repair at the expense of and by said party of the second part. General repairs to the building which are not confined to any one apartment may be made by the occupants and the cost of labor divided in any way satisfactory to them, but in the event repairs are not made by the occupants, such repairs will be made by the quartermaster department and the cost of such repairs will be charged to and divided equally among the occupants of the building. The grounds immediately adjacent to the apartment occupied by the party of the second part and allotted to him by the District Quartermaster at Pedro Miguel, shall be kept clear of excessive vegetation and otherwise maintained in a sanitary condition, as directed by the be kept clear of excessive vegetation and otherwise maintained in a sanitary condition, as directed by the

Health Department.
7. The plot of agricultural land or lands assigned to the party of the second part shall be designated by The Panama Canal representative stationed in the village of Las Cascadas, and shall be monumented in a way suitable to said Panama Canal representative by and at the expense of the party of the second

R. K. Morris,

	Party of the First Part.
Witnesses:	D
	Ву
	Party of the Second Part.

Indexes and Bound Volumes.

Indexes and title pages for Volumes XI and XII of THE PANAMA CANAL RECORD have been issued, and the customary distribution made. Additional copies may be secured on request of The Panama Canal, Washington, D. C., or Balboa Heights, C. Z. Bound sets of the volumes are being prepared in Washington, and the usual distribution of official copies will be made in due course. Copies of the bound volumes may be purchased for \$1 each.

Rates at Hotel Aspinwall, Taboga.

The following are the current rates at the Aspinwall: Employees: Dinner, lodging, and breakfast......\$2.00 1.50 Reduction of 10 per cent for employees on above rates for stay of 30 days. Further reduction of 10 per cent for families of four or more.per day .. Children of nonemployees per day
Servants of nonemployees per day

Meals without room

Breakfast
Luncheon
Dinner

Hotel patrons desiring to send trunks should arrange to have them delivered at the launch landing by 9.30 a. m., addressed to themselves, care of Hotel Aspinwall. Freight will be transported on the a. m. trip on Mondays, Thursdays, and Saturdays.

For further information address Manager, Hotel Aspinwall, Taboga, via Balboa, C. Z.

Deceased Employees.

The estates of the following deceased employees of The Panama Canal are now in process of settle-The estates of the following deceased employees of The Panama Canal are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by-	Date of death.
Rene de Beauville, (alias Boville) James McLean	173410 34097	Martinique Barbados	Panama	Dredging Division Panama Railroad	November 30, 1919. December 4, 1919.

Official Circulars.

Acting Governor.

THE PANAMA CANAL,

EXECUTIVE OFFICE. Balboa Heights, C. Z., December 13, 1919.

To all concerned—Effective December 15, 1919, and during my absence on leave, Lieut. Col. Jay J. Morrow, U. S. A., Engineer of Maintenance, will be Acting Governor.

CHESTER HARDING, Governor.

Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT,

Balboa Heights, C. Z., December 6, 1919

CIRCULAR No. 223:

Effective December 5, 1919, Mr. B. C. Poole, District Quartermaster, is designated an accountable official of The Panama Canal, vice Mr. R. C. Shady, and as such will account for all nonexpendable property in use by the District Quartermaster, Balboa.

H. A. A. SMITH, Auditor, The Panama Canal. Approved: CHESTER HARDING, Governor.

Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT,

BALBOA HEIGHTS, C. Z., December 8, 1919. CIRCULAR No. 224:

Effective December 5, 1919, Mr. L. J. Stapleton Is designated an accountable official of The Panama Canal, vice Mr. W. R. Smith, and as such will account for all storehouse stock at the Cristobal Store.

H. A. A. SMITH, Auditor, The Panama Canal. Approved: CHESTER HARDING. Governor.

Employees with 120 Days or More Leave Due February 1.

THE PANAMA CANAL, EXECUTIVE OFFICE.

Balboa Heights, C. Z., December 10, 1919. HEADS OF DEPARTMENTS AND DIVISIONS:

Attention is called to paragraph 35 of Circular 601-59, which reads as follows:

"After accumulating leave of all kinds amounting to 120 days, an employee ceases to earn additional leave until he is granted all or part of the cumulative leave already earned, unless he shall enter on cumulative leave within two months thereafter, or be ordered by the Governor to defer taking leave for official reasons."

defer taking leave for official reasons."

A number of employees will have earned leave amounting to 120 days and over on February 1, 1920, and in order to continue to earn cumulative leave it will be necessary for the employee to reduce such leave to a number of days less than 120 by entering on leave of absence within two months after the expiration of his current service year. Information regarding amount of leave due can be procured by calling up the Leave Clerk, Personnel Bureau, telephone Balboa 168. By direction of the Governor.

C. A. MCILVAINE,

Executive Secretary.

Proposals for Furnishing Green Coffee.

THE PANAMA CANAL, SUPPLY DEPARTMENT. COMMISSARY DIVISION,

CRISTOBAL, C. Z., December 1, 1919.
Sealed proposals are invited for furnishing the
Commissary Division of the Supply Department,
The Panama Canal, with 250,000 pounds of green

coffee in accordance with the following specifications:

Coffee to be a good medium bean, good body, soft, good roast and free from all foreign matter, and to be packed in closely woven burlap bags.

Bids will be received for all or any part of the Bids will be received for all or any part of the 250,000 pounds called for, until 4p. m., Thursday, January 1, 1920, at the office of the General Manager, Commissary Division, Cristobal, Canal Zone, enclosed in a sealed envelope, addressed to the General Manager, Commissary Division, and marked "Proposal for furnishing Green Coffee, to be opened January 15, 1920." A 2-pound sample of the coffee offered must be submitted with bid. with bid.

Coffee supplied on this contract will be received subject to final inspection on delivery at warehouse of the Commissary Division, Cristobal, Canal Zone; samples will be taken from each consignment by the General Manager for the purpose of testing and comparing with original sample sub-mitted with the bid. The decision of the General Manager as to whether the coffee complies with the standard of sample submitted shall be final

the standard of sample submitted shall be final and conclusive on both parties.

Deliveries to be made on dock at Balboa or Cristobal, Canal Zone, free of all charges. The total quantity awarded will be accepted in one or not more than two shipments of equal quantities, but the first in no event later than 30 days after acceptance of bid, balance 30 days later. Bids must be accompanied by a guaranty bond with satisfactory sureties, or by a certified check on or certificates of deposit in a bank or trust commany acceptable to the General Manager and

company acceptable to the General Manager and company acceptable to the General Manager and made payable to the order of the Collector of The Panama Canal in an amount not less than 5 per cent of the bid. Such check or certificate may be held, deposited, or collected by the Collector of The Panama Canal, as may be directed by the General Manager. The same, or their proceeds, will be returned to the unsuccessful bidders on rejection of their bids.

Should the successful bidder if requested to do.

bidders on rejection of their bids.

Should the successful bidder, if requested to do so, fail to enter into a formal contract within thirty (30) days after the acceptance of his bid by the Commissary Division, such bond, check or certificates of deposit, or the proceeds thereof, shall be forfeited as liquidated damages for such failure. The bond, certificates of deposit or certified check submitted by the successful bidder shall stand as security for the performance of the bidder's proposal, or as a guarantee for the faithful performance thereof in case a formal contract is not required.

Time is the essence of any agreement that may

contract is not required.

Time is the essence of any agreement that may be entered into hereunder, and if the contractor fails to make deliveries as required, there shall be deducted from the contract price the sum of 5 cents U. S. currency, for each 100 pounds of coffee for each day the contractor fails to make delivery after the date fixed for delivery or until the General Månager is able to purchase the same quantity and quality of coffee elsewhere; provided that no deduction shall be made for delays caused by fires, floods, perils of the sea or other causes which the General Manager determines are beyond control of the contractor. If the contractor fails, neglects, or refuses to make delivery in the contractor. If the contractor is in the contractor fails, neglects, or refuses to make delivery in the manner provided for by the contract, the right is reserved through the General Manager to terminate the contract at any time.

The Commissary Division reserves the right to reject any and all bids, or to accept any bid in part, in its discretion.

J. J. JACKSON, General Manager.

Sale of Tug De Lesseps.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10.30 a. m., January 5, 1920, and then opened, for the purchase of the tug DeLesseps. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

Stages of the Chagres and the Lakes.

The maximum elevations of the Chagres River, Gatun Lake, and Miraflores Lake, in feet above mean sea level, during the week ending at midnight of Saturday, December 13, were as follows:

	Chagres	River	Gatur	Mira-		
Date	Vigia	Alha- juela	Gam- boa	Gatun	flores Lake	
Sun., Dec. 7 Mon., Dec. 8 Tues., Dec. 9 Wed., Dec. 10 Thurs., Dec. 11 Fri., Dec. 12 Sat., Dec. 13 Height of low water to nearest foot.	127.55	93.62 92.85 92.38 92.17	87.08 87.10 87.12 87.13 87.12	87.01 87.01 87.06 87.06	54 15	

Rainfall from Nov. 1 to 30, 1919, Inclusive.

Stations.	Maximum in one day.	Date.	Total.
Pacific section—	Ins.		Ins.
Taboga	1.50	30	7.14
Balboa	1.28	30	5 10
Balboa Heights.	.92	30	4.97
Miraflores.	2.01	30	5.47
Pedro Miguel	2.71	30	6.02
Rio Grande	1.98	4	6.66
Central section—	1100		
*Culebra	2.40	4	7.40
Camacho	2.20	4	6.00
Empire	2.26	4	6.65
Gamboa	.84	4	3.50
*Juan Mina	1.76	30	7.59
Alhajuela	2.49	30	9.79
*Vigia	1.26	5	5.99
Frijoles.	1.78	19	11.11
•Trinidad	1 .97	8	7.56
Monta Lirio	1.59	5	9.09
Atlantic section-		-	
Gatun	.78	4	7.19
Brasos Brook	.87	29	5.22
Colon	1.43	8	6.63
†Bocas del Toro	1.05	28	4.44
Porto Bello	.91	29	7.74

Standard rain gauge—readings at 5 p. m. daily.
 Automatic rain gauge at unstarred stations—values, midnight to midnight.

† Standard rain gauge-readings at 8 a. m. daily.

Additions to Commissary Stock. Hardware Section.

Bats, cricket, Cienell, ea	\$7.75
Bags, hand, 18", ea	33,30
Beds, three-quarter size, ea	5.75
Bowls, mayonnaise, silver plated, (32859,	
F 32861) ea	3,60
Dishes, olive, silver plated, ea	3.40
Dishes, bonbon, silver plated, (32863,	3.25
32864) ea	3,23

Hammer, steak, ea	\$0.18
Jap-a-lac, aluminum, 4-pint tin	. 27
Masks, catchers', ea	2.15
Oil, typewriter, special, ½-pint bot Percolator, coffee, electric, silver plated,	.28
110-v., ea	12.85
Percolator, coffee, electric, silver plated,	
110-v., ea	11,70
Pots, tea, silver plated, with tea-ball at-	
tachment, ea	3.60
Springs, three-quarter size, ea	5.75
Toasters, bread, plain tinned wire, ea	. 15
Trays, mahogany, brass handles, ea	6.30
Trays, mahogany, brass handles, ea	4.50
Trays, mahogany, brass handles, ea	4.85
Trays, waiters', round, nickel plated, ea	2.30
Cuncaus Section	

Grocery Section.

Candy:
Chocolate, nut milk, Cadbury's, 6-oz.
cake...
Chocolate, milk, plain, Auerbach, cake..

Chocolate, milk, plain, Auerbach, cake. 06
Olives, Queen, 14-oz. bot. 26
Powder, whole, milk, Klim, 1-lb. tin. 99
Pickles, whole (sour), 95-lb. keg, lb. 15
Pickles, whole (medium sour), 95-lb. keg, lb
Pickles, sliced (medium sour), 95-lb. keg, lb
Above prices are for a special lot of 21 kegs prepared at industrial laboratory.)
Parsnips, case 24, 2s, tin. 16
Pate de Fois Gras, case 50, 2-oz. tin. 70

November Rainfall for Three Years.

		INCHES.				
Stations.	1919	1918	1917	Station average.	Years of record.	Rainy days, 1919.
Pacific section— Balboa Heights Miraffores Pedro Miguel. Rio Grande Central section— Culebra Camacho Empire Gamboa Juan Mina Alhajuela Vigia Frijoles Trinidad	5.10 4.97 5.47 6.02 6.66 7.40 6.65 3.50 7.59 9.79 9.79 9.79 11.11 7.56	7.16 7.75 7.28 8.63 7.19 5.86 6.78 6.94 8.40 14.14 7.73	13.33 13.77 14.65 19.38 24.79 21.62 25.37 23.79 22.05 22.23 19.83 20.89 28.10 28.84	9.11 10.10 10.42 10.82 11.27 12.26 12.87 11.53 11.87 12.42 14.13 14.15 13.26 17.03	21 23 12 12 15 31 14 15 37 10 21 12 7	17 17 21 21 22 20 19 26 20 15 25 26 26 25
Monte Lirio Atlantic section— Gatun Brazos Brook Colon Porto Bello	9.09 7.19 5.22 6.63 7.74	15.37 11.49 15.04 14.23	27.04 30.94 24.86 20.49	19.64 21.17 21.04 27.35	12 15 14 49 8	25 25 21 22 23

COMMISSARY NOTES.

New Christmas Goods.

Items for the Christmas trade are still arriving. On the steamship *Allianca* were received toys and children's vehicles, Christmas nuts, gift books, and a number of other articles.

Blouses.

A shipment of ladies' white voile waists, ranging in prices from \$2.95 to \$6.50, has been received and is now on sale in the line commissaries. Of the shipment, the blouses priced at \$6.50 each, are a particularly good value inasmuch as they are of fine voiles, hand embroidered.

COMMISSARY NOTES.

Lingerie.

There has recently been received by the Commissary Division a shipment of ladies' silk undergarments, consisting of chemises, knickers, etc. Made of a good quality crepe de chine, trimmed with lace, ribbon flowers, and hemstitching, these garments are good values at the price, \$4.70. These will be on sale at Ancoi, Balboa, Cristobal, Gatun, and Pedro Miguel commissaries.

Jellies.

Jellies of any kind, according to latest advices from New York, are in demand and stocks are becoming low. The reason for this is said to be the present sugar situation, which will explain why certain brands of jellies will not be obtainable in the line commissaries for some time to come.

Straw Hats.

Typical of conditions in many markets is the instance of a marked advance on the comn issaries' latest requisition for straw hats from a United States manufacturer. For China split straws, this will bring the retail price, when the new shipment is received, to approximately \$4.25.

Rice.

The rice situation throughout the Orient is reported as being very serious at present, with little tope of letterment for some time to come because the summer crops in many important rice-growing centers are but 50 per cent normal. Naturally prices will remain high until production is greatly increased and transportation facilities are improved.

Shirts.

The Commissary Division has been fortunate in having procured for its patrons a line of men's regligee shirts of a popular brand, which are on sale at all gold commissaries at the price of \$1.40 each. The line covers a range of neat patterns in fine colored stripes, the garments being made with French cuffs. These are the nearest to pre-war values on sale for some time. Sizes run 14 to $17\frac{1}{2}$.

Fancy Dress Goods.

A s ipment of dress materials consisting of fine French cotton voiles in floral patterns, at \$1.20 the yard, woven silk stripe voiles, at \$1.15, silk and cotton crepes, in white, blue, and pink, at 81 cents, silk checked voiles at \$1.35 and \$1.30, and printed voiles at 55 cents and 71 cents was received and forwarded to the line commissaries and will be placed on sale this week. These are all 1920 patterns and are good values at the prices quoted.

Books.

Books received:

Books received:

"Sherry," by Geo. Barr McCutcheon; "Transplanted," by Gertrude Atherton; "The Water Babies," by Charles Kingsley; "The Command is Forward," by Sergt. Alexander Woolcott; "The Black Drop," by Alice Brown; "The Siamese Cat," by Henry M. Rideout; "Sonnica," "The Dead Command," by Elasco Ibañez; "Dictionary of Musical Terms," by Baker; "The Ne'er Do Well," by Rex Beach; "The Lost Road," by Richard Harding Davis; "The Perfect Gentleman," by Ralph Bergengren; "Peace in Friendship Village," by Zona Gale. "The Chinese Puzzle," by Marian Bower and Leon M. Lion, "The Old Madhouse," by Wm. de Morgan; "The Girl and the Job," by Helen C. Hoerle and B. Saltzberg; "Short Stories of the New America," by Mary A. Laselle; "Winesburg, Ohio," by Sherwood Anderson; "Poems," by Sidney Lanier; "Poems," by Eugene Field; "Six Best Cellars," by Holoworthy Hall; "Behind the Motion Picture Screen," by A. G. Lescarboura; "Deep Waters," by W. V. Jacobs; "Pifth Avenue," by Arthur Bartlett Maurice; "The New Decameron," "Limehouse Nights." by Thomas Burke; "Banked Fires," by E. W. Savi; "St. Joan of Arc," by Mark Twain; "Theodore Roosevelt," by W. R. Thayer; "In Ole Virginia," by Thomas Nelson Page; "The Man Who Found Christmas," by Walter Prichard Eaton; "Honorable Gentleman and Others," by Achmed Abdullah; "Uncle Tom's Cabin," by Harriet Beecher Stowe; "Arrow of Gold," by Joseph Conrad; "Lamp in the Desert," by Ethel M. Dell; "Sailor's Knots," by W. W. Jacobs; "Principals of Rhetoric," by Hill; "Autumn Loiterers," by Chas. Hanson Towne; "Two Years in the Forbidden City," by Princess Der Ling; "Her Golden Hours," Anonymous; "Panama and Other Poems," by Stephen Phillips; "Others," by Alfred Kreymberg; "The Name of Old Glory," by James Whitcomb Riley; "Who Built the Panama Canal," by Leon Pepperman; "Lovers, The Free Women, They," by Maurice Donnay; "The Rib of the Man," by Charles Rann Kennedy; "The Marriage Game," by Anne Crawford Flexner; "Complete Prose Works," by Walt Whitman; "The Merchant of Venice," by Shakespeare; "The

THE PANAMA CANAL RECORD



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Volume XIII. Balboa Heights, C. Z., December 24, 1919. No. 19.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending December 20, 1919.

				Car	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
8.67.1.21.3	P		D 1 44	Tons.	Tons.
Middlebury	Panama Railroad Cattle Industry		December 14		
Gen. G. W. Goethals.			December 14		
Jamaica	Panama Railroad Steamship Line.		December 15		
Cauca			December 15		
Imperial			December 15 December 15		
National Bridge		December 14	December 16		702
Achilles			December 16	4,759	(*)
Ancon	Panama Railroad Steamship Line.		December 17 December 17		13,187
Heredia	United Fruit Co	December 15	December 17	1 000	
Allianea	Panama Railroad Steamship Line.	December 10	December 18	1,000	108
Nessian	Leyland Line	December 15.	December 19	1 100	1,794
Salvador		December 16.	December 15		1,188
Palena					
Abangarez		December 17	December 19	967	158
Balboa					
Carrillo				33	
Tivives			December 18.	80	4
Levisa		December 18.		30	(*)
Almelo	. Royal Netherlands Steamship Line			165	(*)
Guatemala	. Pacific Steam Navigation Co	December 18			
Colon				3,409	
Middlebury	. Panama Railroad Cattle Industry.	December 19	1	510	
Manavi	. Pacific Steam Navigation Co	December 20		010	

^{*} No cargo laded.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending December 20, 1919.

				Cargo		
Name of vessel.	Line or charterer.	Arrived. Departed. Discharge		Discharged	Laded.	
Lake Onawa*	United States Shipping Board	December 12.	December 14.	Tons.	Tons.	
San Jose	Pacific Mail Steamship Co	December 14	December 14	*3,611	32	
Cauca	Pacific Steam Navigation Co Johnson Line	December 15	December 15 December 16		6	
Jamaica	Pacific Steam Navigation Co	December 15	December 15	136	42	
West Jaffrey	United States Shipping Board Pacific Steam Navigation Co	December 15 December 16	December 20	1,862		
Point Bonito	Pacific Mail Steamship Co	December 16	December 17.	62 122		
Guatemala Manavi	Pacific Steam Navigation Co	December 18 December 20	December 18 December 20	21		
Lake Fairfax	United States Shipping Board	December 19		3,205		
Lighter No. A. L	Pacific Steam Navigation Co	December 18	December 19.,	13		

^{*}Omitted in report of December 13.

Employees' Free Entry Request.

The delivery of personal shipments consigned to employees is often delayed because free entry requests have not been submitted by the employees prior to the arrival of the shipments. These requests have to be approved by the head of the division in which the employee is employed, the Executive Secretary, and a representative of the Republic of Panama; and it usually takes about three days for a request to be accomplished. Delay may be avoided if employees will submit free entry requests before the arrival of the shipments.

Flour..... 9,000 6,932 5,046 Nitrate.... 4,208 General..... 9,396 7,666 5,529 Ballast.....

New York.... New York....

54.8 25.0 46.8 19.0 29.0

402.6 325.0

United States Shipping Board...

14 16.33 14 23.07 American... 0.10 200 14.18 19

6.53 9.29

14

9.00 c 28 14

Crisfield..... Saint Andrews. Toyohashi

Maru New Zealand(e) 13 7.00 16 (e) Cruiser. (c) For orders,

Kobe.... Seattle.....

80.0

Nippon Yusen Kaisha..... 445.0

Japanese...

MOVEMENTS OF OGEAN VESSELS.

Week ending at Midnight, December 20, 1919. THROUGH THE CANAL-ATLANTIC TO PACIFIC.

Canal	tonnage	Net	1,602 1,024	
PanamaCana	I Court	Gross	8,000 6,488 8,000 6,488 1,390 1,582 1,390 1,582 1,390 5,782 6,100 6,778 1,590 6,778 1,590 6,778 1,590 6,778 1,590 6,778 1,590 6,708 1,500	
	Tons		2,258 3,200 3,200 4,200 6,700 1,390 1,300	
	Cargo		General	
	Fer		San Francisco. Pisagua Valparaiso Gaalao Gaayaquil Iquique. Taltal Callao Callao Callao Callao Callao Callao Taltal Antofagasta Antofagasta Antofagasta Antofagasta Antofagasta Antofagasta Antofagasta Antofagasta Callal Antofagasta Callal Antofagasta Callal Call	
	From	7	Cristobal New Orleans Cristobal Gristobal Mew York New York	
100	water draft		00000000000000000000000000000000000000	
			92822222222222222222222222222222222222	LAME
	Length Beam		14 14 14 14 14 14 14 14 14 14 14 14 14 1	10 10 01
	Line		Pacific Mail Steamship Co. 283 0 37 0	THE CANAL FACE
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(g) Sailor. (h) Aochored in Gatun Lake. (i) Scrap steel and lumber. (j) Coffee, ivory nuts, and hides. (k) Wool, case meat, and general. (l) Wheat, wool, and frozen meat. (m) Cold storage products. (n) 552,97. (o) Lumber, 529,860 B. F.; iron, 110,300 pounds. PORT OF CRISTOBAL.

	For	Cartagena. New York. Puerto Cabello. New York. New Orlens, and wayports New York via Kingston. New York via Kingston. New York via Port Limon. Cartagena. Cartagena. Cartagena. New Orlens, and wayports Kingston.	
*DEPARTURES	Line	anama Railroad Cattle Industry, anama Railroad Steanship Line, inted States Shipping Board. inted Pruit Co. mited States Shipping Board. eyland Line.	Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.
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	From	New Orleans, Dec. 14. Mandrelster and wayports Dec. 15. New York via Kingston, Dec. 17. New York via Kingston, Dec. 17. Cartagens, Dec. 18. New York and Habana, Dec. 18. New York and Habana, Dec. 18. New York via Haiti, Dec. 19.	Hours are expressed on
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		Heredia Nessian Yarmouth Abangarez Levisa Carrillo Tivives Middlebury Colon	dide nad

*Other than ships passing through the Canal.

Fires in Ships.

The steamship Crown of Galicia arrived at Cristobal shortly after noon, December 20, with fire in the forward hold. She was met by Canal firemen in the outer harbor and taken alongside Pier 6 where, with the use of several lines of hose, the fire was extinguished by 6 o'clock that evening. The fire occurred among bales of rags, on which linseed oil had leaked. The extent of the damage has not been determined by the representatives of the underwriters. was on the way from Glasgow to San Francisco with a general cargo.

While the steamship Balboa was alongside the pier at Cristobal, loading with general cargo for Buenaventura, fire broke out at about 10 o'clock in the night of December 21 and continued until approximately 3 o'clock the next morning. It originated in a shipment of phosphorus said to have been improperly packed and to have been ignited through leakage of cans. The damage was not extensive.

Extensive Italian Services on West Coast.

Two Italian steamship lines are now operating between Italy and the West Coast of South America as far south as Valparaiso by way of the Canal, with calls at numerous wayports. The 60-day sailings of "La Veloce" Line, by way of Marseilles, Barcelona, Teneriffe, and Caribbean ports to ports of Ecuador, Peru, and Chile, with stops at the Canal, were noted in The Panama Canal Record of November 26. Beginning in August was the joint service of the "Transatlantica Italiana," and "Societa Nazionale di Navigazione" operating vessels

approximately every 45 days over this trade route.

The vessels of the "Transatlantica Italiana" and "Societa Nazionale di Navigazione," sail from Genoa, calling at Marseilles, Barcelona, and Cadice, thence to Trinidad, Curaçao, Venezuelan and Colombian ports, and to the Canal; and on the West Coast call at Colombian. Ecuadorian, Peruvian, and Chilean ports as far as Valparaiso. On the homeward voyage the course is approximately the same, such calls being made as conditions warrant. Vessels of this service which have passed through the Canal are the Ansaldo San Giorgio I, Ansaldo San Giorgio II, Ansaldo I, and Nicolaos, and two others are due within a short time. For the present passengers are not carried but it is expected to begin a passenger service about March, 1920, with new steamers now under construction in the shipping yards owned by the named companies, which will be provided with the latest devices for the safety and comfort of passengers.

Proclamation.—Abrogating Regulations Governing the Flying of Civilian Aircraft.

Whereas, under and by virtue of the authority vested in me by the Constitution of the United States as Commander-in-Chief of the Army and Navy of the United States and of the militia of the several States when called into actual service of the United States, I declared and established as a war measure by proclamation No. 1432 of February 28, 1918,* rules and regulations governing flying by aircraft within the whole of the United States and its territorial waters and of the insular possessions and of the Panama Canal Zone, declaring said territory a zone of military operation and of military preparation;

And whereas, the necessity, as a war measure, for the continuance in effect of said rules and regulations has come to an end, now therefore;

I, WOODROW WILSON, President of the United States of America, do hereby pro-claim to all whom it may concern that the Presidential proclamation No. 1432 of February 28, 1918* and the rules and regulations therein contained and the power

and authority therein and thereby conferred upon military and naval commanders and forces are hereby abrogated, withdrawn and annulled from and after the date hereof.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of the

United States to be affixed.

Done in the District of Columbia this thirty-first day of July, in the year of our Lord one thousand nine hundred and nineteen and of the independence of the United States the one hundred and fourty-fourth.

WOODROW WILSON

[SEAL]

By the President:

ROBERT LANSING, Secretary of State.

Published as Panama Canal circular No. 601-72. The Proclamation above has been published as Canal circular No. 601-97.

Traffic Restriction in Ancon Hospital Grounds.

The Health Department authorizes the following:

Owing to unnecessary noises and other nuisances resulting from unrestricted traffic within Ancon Hospital grounds which has disturbed patients and interfered with the proper examination of the sick by the physicians, it has been necessary to restrict this traffic to the minimum considered essential for the best interest of the

The Governor's circular No. 717-2 has designated the main road from Panama, through the hospital grounds as a 1-way road down hill from the steps at main entrance to hospital to the top of the hill just beyond the bachelor quarters.

Only the following classes of vehicles are allowed on the interior road of the hospital

grounds, the entrances to which are plainly indicated by warning signs, viz:

"This entrance only for Ancon Hospital vehicles, Health Department and military ambulances baving patients for admission to hospital or removing them therefrom and Panama Canal trucks when delivering supplies, removing garbage and those required for repair or construction work pertaining to hospital. No other vehicles, jitneys, or horses allowed within. Violations will be subject

to prosecution.

Vehicles having visitors or patients for clinics will discharge passengers at entrance to hospital on main road. Vehicles other than ambulance having patients for admission to hospital will apply at

admitting office.

By order of the Superintendent."

Patients coming to the hospital in vehicles other than ambulances, as designated above, will go to the admitting office, located in Dispensary-Admitting Office Building, from whence patient will be sent to hospital by ambulance, or if no ambulance is available and case is emergency in character, a special permit will be given authorizing the vehicle with patient to use the interior road of the hospital for the purpose of conveying patient to his proper section.

Patients for the clinics who are too sick to come up to the clinics by walking up steps of main entrance to the hospital, will apply at admitting office, where provisions have been made for taking them to Administration-Clinics Building in ambulance or, in emergency cases, permit will be given authorizing vehicle to enter the interior hospital road.

Medical Treatment in Hospitals and Elsewhere.

THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., November 18, 1919. CIRCULAR No. 618-16 (superseding all previous Circulars of the 618 series and modifying Circular 624).

The following rates and regulations governing medical and hospital services are

effective on and after December 1, 1919.

1. Employees of The Panama Canal and the Panama Railroad Company in case of illness or injury will receive free treatment in the hospitals of The Panama Canal except in cases of alcoholism or venereal disease. Those who have been employed on the silver roll will be considered as employees if not more than 30 days have elapsed since date they were last actually on duty. Time spent as dispensary or hospital patient, and on authorized leave, will be considered as on duty.

2. An employee who is not ill or injured, but who desires hospital treatment or a surgical operation for his own convenience or for cosmetic or other reasons, when such

hospital treatment or operation is not considered necessary to preserve or maintain

the employee's health or efficiency, will be charged for hospital care and treatment and for surgical operation or X-ray examination at the rates specified for families of employees.

3. Employees will be admitted to the hospitals of The Panama Canal upon request

made by a physician in the employ of the Health Department.

4. Form 8821-1, "Request for Medical Treatment," properly filled out, will be required before sending silver employees or members of their families to hospitals. The necessities of patients will be given first consideration, and no one in urgent need of hospital care will be refused admission.

5. Officials who issue "Requests for Medical Treatment," will see that they bear not only the check number but the name of the employee as it appears on the pay roll. Special care should be used to obtain the full name of patient, as much difficulty is experienced in identifying employees on account of incomplete or incorrect names

being given.

6. Employees who, in the opinion of the visiting physician, can not safely or conveniently report at the dispensary for treatment, will not be charged for the first home visit of the physician. All home visits after the first will be charged for, and if the employee desires to remain in quarters, the physician may allow him to do so unless convalescence would be retarded thereby.

7. The family of a responsible party shall be understood to include those persons who are members of his immediate household, and dependent upon him. Babies born in hospital will not be charged for as long as the mother remains continuously a

patient in the hospital.

8. Employees holding family quarters will be held responsible for the payment of the hospital bills of any nonemployees allowed to live in their quarters with them, and will be required to see that no nonemployees are allowed to live in their quarters unless they are willing to be responsible for the hospital treatment of such nonemployees in case it should at any time be necessary to send them to the hospital.

9. District physicians who send nonemployees to the hospital will ascertain if the patient has been occupying Canal quarters and if so will secure and furnish the superintendent of the hospital the name of the employee holding the quarters, his check number, and the division for which he works, so that pay roll deduction can be made

unless bill is otherwise settled.

10. The members of families of employees may consult their district physician and be given medicine free of charge. On the recommendation of their district physician

they may also consult hospital physicians free of charge.

11. Persons having, or suspected of having chicken pox, cerebrospinal fever, cholera, diphtheria, leprosy, measles, plague, polionyclitis, scarlet fever, smallpox, typhus fever, or yellow fever, will not be charged for first home visit, and when sent to the hospital for treatment for the protection of the public, shall receive treatment without charge to themselves. Such patients of the Army, Navy, Marine Corps, Public Health Service, American and foreign seamen, will be charged for. Patients non-resident of the Canal Zone, if treated in Panama Canal hospital at their own request (instead of Santo Tomas Hospital) will be charged regular rates.

12. A charge of \$2 will be made for physical examination for insurance for fraternal orders, for employees, and their families. Five dollars will be charged for all

other physical examinations for insurance.

13. Companions to patients will be charged the same rates as if patients, but in no case less than \$2.25 per day in the ward. For a mother accompanying sick breast-nursing child, or a well breast-nursing child with sick mother, rates may be reduced or

remitted by superintendents of hospitals.

14. In case of emergency, or where humanity or the public good requires it, a physician may depart from these regulations, but in each such case a written report shall be made immediately to the Chief Health Officer. The superintendents of Ancon and Colon Hospitals may make such reductions, not to exceed 50 per cent, from the minimum charges for operations and hospital treatment, as may be necessary on account of lack of means of the patient. A written report of all such cases shall be made immediately to the Chief Health Officer, and a copy forwarded to the Auditor. The Chief Health Officer may, in case of destitution, remit the charges entirely.

15. The charges for treatment shall be as shown in the accompanying tables. Where the charges in any case are not specifically provided for in the accompanying tables, the charges shall be fixed by the Chief Health Officer, based on the charges

herein prescribed.

CHESTER HARDING,

Governor.

SCHEDULE OF CHARGES IN HOSPITALS OF THE PANAMA CANAL.

SCHEDU	LE O	F CHA	RGE	SIN	HOSE	TTAI	72 01	THE	PANA		CANA	<u>ل.</u>	
	Ordinary care and treatment in hospital ward per day.	Private room, when requested by patient, per day in addition to ward charges. (1) (1) (2)	Care of alcoholism or venereal disease in hospital ward per day.	Care of alcoholism or venereal disease in private room or cell room per day.	Ordinary care and treatment in insane ward per day.	Special nurse in hospital each per day, when requested by patient. (1)	Special maid or attendant in hospital each per day, when requested by patient. (*)	Obstetrical case, including ten days' ward charges (complications charged surgical rates in addition).	Obstetrical case, including ten days' private room charges (complications charged surgical rates in addition).	Obstetrical case, outside of hospital (complications charged surgical rates in addition).	Surgical operations.	Office consultation at hospital or dispensary .(**)	Home visit. (4s)
1. Employees of The Panama Canal or the Panama Railroad, whose pay is: \$50 a month or less (24c or less per hour)	² Frec	en 00	20.50	\$2.50	Free	es 00	\$2.00				²Free	Free	480,50
(25c to 28c per hour)	²Free		.75	2.75	Free	5.00			• • • • • •		*Free	Free	6.50
month (29c and over per hour)	·Free	2.00	2.25	4.25	Free	5.00	2.00				³Free	Free	41.50
Pamilies of employees; other employees of the United States and their families se; persons en- gaged solely in chari- table and religious work table Canal Zone, and their families se; when say of employee is: 440 or less per month													
(19c or less per hour).	\$0.50	2.00	.50		*\$0.50		2.00	\$10.00		\$10.00	(9)	Free	.75
(20c to 28c per hr.) \$60.01 to \$100 per mo. (29c to 48c per hr.)	.75	2.00	.75	2.75	6.75		2.00	15.00		10.00	(9)	Free	.75
\$100.01 to \$130 per mo.	1.00		1.00	3.00	*1.00		2.00	20.00		10.00	(9)	Free	.78
(49c to 62c per hr.) \$130.01 and over per mo. (63c and over per hr): Male and children under six	1.75	2.00	1.75 2.25 3.00	3.75 4.25	1.75 1.75 1.75	5.00	2.00		\$50.00	20.00	(9) (9) (9)	Free	1.50 1.50 1.50
Female	3.00	2.00	3.00	5.00	1.75	5.00	2.00	45.00	65.00	20.00	(9)	Free	1.58
3. Servants of all employees of the United States, and their children: Black. White	.50		1.00	3.00 4.25	1.50		2.00	15.00 25.00		10.00 15.00	(n) (n)	Free Free	.78
Nondependent visitors of employees of The Panama Canal and Panama Railroad, and, White employees—of companies—who work in the Canal Zone, and their families	3.50	2.50	4 50	7.00	2.50	6.00	2.50	50.00	75.00	30.00	(13)	\$2.50	3.00
5. Laborers and artisans regularly employed by the Army, or by individuals or companies in the Canal Zone ¹⁶	2.00	2.00	2.00	4.00	1.50	5.00	2.00	25.00	45.00	15.00	(10)	2.50 2.50	3.00 3.00

SCHEDULE OF CHARGES IN HOSPITALS OF THE PANAMA CANAL-Continued.

	y care and treatment in hosp or day.	Private room, when requested by patient per day in addition to ward charges. (1) (3) (4) (5)	Care of alcoholism or venereal disease in hospital ward per day.	Care of alcoholism or venereal disease in private room or cell room per day.	Ordinary care and treatment in iusane ward per day.	Special nurse in hospital each per day, when requested by patient. (1)	Special maid or attendant in hospital each per day, when requested by patient. (1)	Obstetrical case, including ten days' ward charges (complications charged surgical rates in addition).	Obstetrical case, including ten days' private room charges (complications charges argical rates in addition).	Obstetrical case, outside of hospital (com- plications charged surgical rates in ad- dition).	Surgical operations.	Office consultation at, hospital or dispensary. (4)	Home visit.(15)
Army, Navy, Marine Corps, and Public Bervice: Officers and en- listed men (both active and retired), and white civilian em-													
ployees. Families of officers: Male and children under six. Female. Families of enlisted men ¹⁴ Male or female.	\$2.25 2.25 3.00 1.00	2.00	2.25 3.00	4.25 5.00	1.75 1.75	5.00 5.00	2.00		\$65.00	{	(9) (9) (10)	(13) 13\$1.00 131.00 (13)	131.59 131.50 131.50
7. American and foreign sea-	2.25	2.00	2.25	4.25	2.25	5.00	2.00				(20)	1.00	5.00
8. Patients of the Republic of Panama	7.78	5			.75						Free		
Physicians and nurses not in employ of The Pana- ma Canal and their families ¹⁶ .	3.00	0 2.00	5.00	7.00	1.00	5.00	2.00	45.00	65.00	20.00	(10)	Free	1.00
10. Private pay patients ¹⁶	5.0	2.50	5.00	7.50	2.50	6.00	2.50	75.00	100.00	30.00	(13)	3.00	5.00

(*) Free when not requested by patient but certified to by attending physician as necessary. (*) See paragraph 2 of text. (*) When a private bathroom, used by one patient only, is furnished, a charge of \$2 per day will be made to private pay patients, and \$1 per day to all other patients. (*) When a private bathroom, used by two patients occupying rooms connecting with common bathroom, is furnished, a charge of \$1 per day will be made to private pay patients, and \$6 cents per day to all other patients. (*) Telephone service in private rooms at Ancon Hospital, when desired by patients, will be charged for at the rate of \$1 per week or fraction thereof. (*) First visit free; see paragraph 6 of text. (*) At Colon Hospital, average per capita daily cost for this class of patients during perceding month. (*) No charge after first 30 days for demented member of employee's family, when physician in charge of asylum certifies that continued treatment is necessary. (*) Charges for operations will be made on the basis of 1 per cent of the approved charge for the particular operation for each \$10 of monthly salary received by the person responsible for the charges, with a minimum charge of \$1 when they receive \$75 or less, and \$2 when they receive more than \$75. The maximum charge for operation will be \$50. (**) Ten per cent of shedule. (**) Charge will be made of 1 per cent of shedule price for each \$10 of servant's pay, as in case of employee's family. (**) Regular charge shown on schedule. (**) Free when Army medical officer is not available. No charge for home visits to members of families of such officers on duty with, but receiving no extra compensation from, The Panama Canal. (**) Surgical dressings without consultation, half price of consultation fee. (**) For visit to two or more in same family, full price for first and half price of each additional patient. Where calls are made upon vessels not alongside dock or locks—in harbor at anchor, or transiting the Canal—\$2.50 added to regular charge. (**) Deposit suffic

SCHEDULE OF OPERATIONS

Abscess, liver	\$400.00	Appendectomy, complicated	\$500.00
Adenectomy, cervical, simple	50.00	Breast, enucleation of tumors	100,00
Adenectomy, cervical, radical	209.00	Breast, excision or amputation	150.00
Adenectomy, inguinal incision	25.00	Breast, excision, radical	500.00
Adenectomy, inguinal radical	100.00	Bunion	100.00
Amputation, cervix	150.00	Cancer, lip	100.00
Amputation, finger, toe	25.00	Cancer, tongue	200.00
Amputation, foot, hand	200.60	Cancer, rectum	500.00
Amputation, leg. forearm, arm	250.00	Cholecystectomy	400.00
Amputation, thigh	300.00	Cholecystotomy	300.00
Amputation, shoulder	350.00	Circumcision	25.00
Amputation, hip	400.00	Circumcision (babies)	10.00
Anesthesia (for examination purposes)	10.00	Colostomy	200.00
Appendectomy, simple, chronic	150.00	Colles fracture (See Dislocations).	
Appendectomy, acute	300.00	Craniotomy, exploratory	400.00
sappendectomy, deate		Ordinotomy, on province	

SCHEDULE OF OPERATIONS .- continued.

Curettage, uteri	\$50,00	Various minor operations	\$5 to 50
Cystotomy	200,00	Extraction of teeth, if anesthetic is	\$2 10 30
Cautery chancroids	10.00	given \$5 for frot tooth and \$1 for and	
Dislocation, reduction, simple	50.00	given, \$5 for first tooth and \$1 for each	
Dislocation, reduction, simple		subsequent tooth; this is a flat charge	
Dislocation, reduction, operative	200.00	for all classes of patients; no reduc-	
Epididymectomy\$25.00	to 50.00	tion given to those charged on per-	
Fistula in ano	50,00	centage basis.	
Fracture, reduction (except small bones)	50,00		
Fractures, open operation, simple	150.00	OBSTETRICAL.	
Fractures, open operation, complicated.		Low forceps	50.00
Costro enterestamenton, complicated.	300.00	High forces	50.00
Gastro-enterostomy	400.00	High forceps	100.00
Gotter, simple (thyroidectomy)	200.00	Version	200.00
Goiter, complicated	400.00	Cesarean, vaginal	200.00
Harelip	100.00	Cesarean, abdominal	300,00
Hemorrhoids, linear excision or external	100.00		300.00
Uemorrhoids, mical excision of external		EYE.	
Hemorrhoids, radical	200.00	Advangement	100.00
Hernia, inguinal, single	150.00	Advancement	100.00
Hernia, double or bilateral (see footnote)	225,00	Capsulectomy	50.00
Hernia, femoral or scrotal	150,00	Cataract extraction	300,00
Hernia, ventral (umbilical) simple	150,00	Cataract needling	50.00
Hernia, ventral, large, plastic		Chalazion	25.00
tradacole	300.00	Corneal trephining	
Hydrocele	100.00	Enveloption	75.00
Hysterectomy, simple	200.00	Enucleation	50.00
Hysterectomy, radical	500,00	Evisceration	75.00
Hysterectomy, supravaginal	300.00	Expression	25.00
Hysteromyomectomy	400.00	Iridectomy	100.00
Ingrawing too neil		Lachrymal operation	50,00
Ingrowing toe nail	25.00	Lid plastics	
Laminectomy	300.00	Dan plastics	75.00
Laparotomy, exploratory	250.00	Paracentesis	25.00
Myomectomy	250.00	Pterygium	25,00
Nephrectomy	400.00	Refraction	10.00
Nephropexy		Resection of rectus	100.00
Manheotom	200.00	Sclerotomy	
Nephrotomy	400.00	Toranllasteres	25.00
Oophorectomy, simple	150,00	Tarsallectomy	75.00
Oophorectomy, cystic, large	300,00	Tenotomy	75,00
Orchidectomy	100.00	Various minor operations	10.00
Parotid gland tumor resection		•	
Parotid gland tumor, resection	250.00	EAR.	
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic oper-	250.00	EAR.	25.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation		EAR. Furuncle	25,00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation	250.00 300.00	EAR. Furuncle Mastoid, simple	150.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy	250.00 300.00 150.00	EAR. Furuncle	150.00 200.00
Parotid gland tumor, resection. Pelvicperitonitis, chronic, plastic operation. Perineorrhaphy. Plastic surface operation, simple	250.00 300.00 150.00 100.00	Furuncle	150.00 200.00
Parotid gland tumor, resection. Pelvicperitonitis, chronic, plastic operation. Perineorrhaphy. Plastic surface operation, simple. Plastic surface operation, complicated.	300.00 150.00 100.00 250.00	Furuncle	150.00 200.00 100.00
Parotid gland tumor, resection. Pelvicperitonitis, chronic, plastic operation. Perineorrhaphy. Plastic surface operation, simple. Plastic surface operation, complicated. Prolapse of rectum.	250.00 300.00 150.00 100.00 250.00 300.00	EAR. Furuncle Mastoid, simple Mastoid, radical Ossiculectomy. Paracentesis.	150.00 200.00 100.00 25.00
Parotid gland tumor, resection. Pelvicperitonitis, chronic, plastic operation. Perineorrhaphy. Plastic surface operation, simple. Plastic surface operation, complicated. Prolapse of rectum. Prolapsus uteri, plastic operation simple	300.00 150.00 100.00 250.00	Furuncle	150.00 200.00 100.00 25.00 100.00
Parotid gland tumor, resection. Pelvicperitonitis, chronic, plastic operation. Perineorrhaphy. Plastic surface operation, simple. Plastic surface operation, complicated. Prolapse of rectum.	250.00 300.00 150.00 100.00 250.00 300.00	EAR. Furuncle Mastoid, simple Mastoid, radical Ossiculectomy. Paracentesis.	150.00 200.00 100.00 25.00
Parotid gland tumor, resection. Pelvicperitonitis, chronic, plastic operation. Perineorrhaphy. Plastic surface operation, simple. Plastic surface operation, complicated. Prolapse of rectum. Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation com-	250.00 300.00 150.00 100.00 250.00 300.00 250.00	Furuncle	150.00 200.00 100.00 25.00 100.00
Parotid gland tumor, resection. Pelvicperitonitis, chronic, plastic operation. Perineorrhaphy. Plastic surface operation, simple. Plastic surface operation, complicated. Prolapse of rectum. Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated.	250.00 300.00 150.00 100.00 250.00 300.00 250.00 400.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Paracentesis Plastic Various minor operations NOSE.	150.00 200.00 100.00 25.00 100.00 10.00
Parotid gland tumor, resection. Pelvicperitonitis, chronic, plastic operation. Perineorrhaphy. Plastic surface operation, simple. Plastic surface operation, complicated. Prolapse of rectum. Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated. Prostatectomy.	250.00 300.00 150.00 100.00 250.00 300.00 250.00 400.00 400.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Paracentesis. Plastic Various minor operations. Nose. Naso-dacryo cystotomy.	150.00 200.00 100.00 25.00 100.00
Parotid gland tumor, resection. Pelvicperitonitis, chronic, plastic operation. Perineorrhaphy. Plastic surface operation, simple. Plastic surface operation, complicated. Prolapse of rectum. Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated. Prostatectomy. Resection of stomach.	250.00 300.00 150.00 100.00 250.00 300.00 250.00 400.00 400.00 500.00	Furuncle Mastoid, simple Mastoid, radical. Ossiculectomy. Paracentesis. Plastic. Various minor operations. NOSE. Naso-dacryo cystotomy. Sinus, ethmoid	150.00 200.00 100.00 25.00 100.00 10.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy Plastic surface operation, simple Plastic surface operation, complicated Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated Prostatectomy Resection of stomach Resection of bowel	250.00 300.00 150.00 100.00 250.00 300.00 250.00 400.00 400.00 500.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Paracentesis Plastic Various minor operations NOSE.	150.00 200.00 100.00 25.00 100.00 10.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy. Plastic surface operation, simple Plastic surface operation, complicated. Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated. Prostatectomy Resection of stomach Resection of stomach Resection of stomach Rodent ulcer, excision of	250.00 300.00 150.00 100.00 250.00 300.00 250.00 400.00 400.00 500.00 50.00	EAR. Furuncle	150.00 200.00 100.00 25.00 100.00 10.00 50.00 75.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy. Plastic surface operation, simple. Plastic surface operation, complicated. Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated. Prostatectomy. Resection of stomach. Resection of bowel. Rodent ulcer, excision of Salpingo-oophorectomy.	250.00 300.00 150.00 100.00 250.00 300.00 250.00 400.00 500.00 500.00 500.00 500.00 200.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Plastic Various minor operations Nose Naso-dacryo cystotomy Sinus, ethmoid Sinus, frontal , simple Sinus, frontal , radical	150.00 200.00 100.00 25.00 100.00 10.00 50.00 75.00 200.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy Plastic surface operation, simple Plastic surface operation, complicated Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated Prostatectomy Resection of stomach Resection of stomach Rodent ulcer, excision of Salpingo-oophorectomy Salvarsan or neosalvarsan injection*.	250.00 300.00 150.00 100.00 250.00 300.00 250.00 400.00 500.00 500.00 500.00 500.00 200.00	EAR. Furuncle Mastoid, simple Mastoid, radical Ossiculectomy. Paracentesis. Plastic Various minor operations. NOSE. Naso-dacryo cystotomy. Sinus, ethmoid Sinus, frontal, radical Sinus, frontal, radical Sinus, maxillary.	150,00 200,00 100,00 25,00 100,00 10,00 50,00 75,00 200,00 100,00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy Plastic surface operation, simple Plastic surface operation, complicated Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated Prostatectomy Resection of stomach Resection of stomach Rodent ulcer, excision of Salpingo-oophorectomy Salvarsan or neosalvarsan injection*.	250.00 300.00 150.00 100.00 250.00 300.00 250.00 400.00 400.00 500.00 500.00 500.00 10.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Paracentesis. Plastic Various minor operations. NOSE. Naso-dacryo cystotomy Sinus, ethmoid Sinus, frontal, simple Sinus, frontal, radical Sinus, maxillary Sinus, spilnary Sinus, spilnary Sinus, spilnary	150,00 200,00 100,00 25,00 100,00 10,00 50,00 75,00 200,00 100,00 200,00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy. Plastic surface operation, simple. Plastic surface operation, complicated. Prolapse of rectum. Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated. Prostatectomy. Resection of stomach. Resection of stomach. Resection of bowel. Rodent ulcer, excision of Salpingo-oophorectomy. Salvarsan or neosalvarsan injection*. Skin graft, small.	250.00 300.00 150.00 100.00 250.00 300.00 250.00 400.00 500.00 500.00 200.00 10.00 50.00	Furuncle. Mastoid, simple Mastoid, radical Ossiculectomy. Paracentesis. Plastic. Various minor operations. NOSE. Naso-dacryo cystotomy. Sinus, ethmoid Sinus, frontal, simple Sinus, frontal, radical Sinus, maxillary Sinus, sphenoid. Spur.	150,00 200,00 100,00 25,00 100,00 50,00 50,00 200,00 100,00 200,00 50,00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy Plastic surface operation, simple Plastic surface operation, complicated Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated Prostatectomy Resection of stomach Resection of bowel Rodent ulcer, excision of Salpingo-oophorectomy Salvarsan or neosalvarsan injection* Skin graft, small Skin graft, large	250.00 300.00 150.00 150.00 250.00 300.00 250.00 400.00 500.00 500.00 500.00 500.00 500.00 500.00 500.00 500.00	Furuncle. Mastoid, simple Mastoid, radical Ossiculectomy. Paracentesis. Plastic. Various minor operations. NOSE. Naso-dacryo cystotomy. Sinus, ethmoid Sinus, frontal, simple Sinus, frontal, radical Sinus, maxillary Sinus, sphenoid. Spur.	150,00 200,00 100,00 25,00 100,00 10,00 50,00 75,00 200,00 100,00 200,00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation ation Perineorrhaphy Plastic surface operation, simple Plastic surface operation, complicated. Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated Prostatectomy Resection of stomach Resection of stomach Redent ulcer, excision of Salpingo-oophorectomy Salvarsan or neosalvarsan injection* Skin graft, small Skin graft, large Surface tumors, etc., small	250.00 300.00 150.00 100.00 250.00 300.00 250.00 400.00 500.00 500.00 500.00 50.00 10.00 50.00 10.00 250.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Paracentesis Plastic Various minor operations. NOSE. Naso-dacryo cystotomy. Sinus, ethmoid Sinus, frontal, radical Sinus, frontal, radical Sinus, sphenoid Sinus, sphenoid Spur. Submucous resection	150.00 200.00 100.00 25.00 100.00 10.00 50.00 75.00 200.00 100.00 200.00 50.00 75.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy. Plastic surface operation, simple Plastic surface operation, complicated. Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated Prostatectomy. Resection of stomach. Resection of stomach. Resection of bowel Rodent ulcer, excision of Salpingo-oophorectomy. Salvarsan or neosalvarsan injection*. Skin graft, small. Skin graft, large. Surface tumors, etc., small. Surface tumors, etc., large.	250.00 300.00 150.00 150.00 150.00 250.00 300.00 250.00 400.00 500.00 500.00 500.00 10.00 250.00 10.00 250.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Plastic Various minor operations Nose Nose Nose Sinus, ethmoid Sinus, frontal, simple Sinus, maxillary Sinus, sphenoid Spur Submucous resection Turbinectomy	150.00 200.00 100.00 25.00 100.00 10.00 50.00 50.00 75.00 200.00 50.00 75.00 50.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy. Plastic surface operation, simple. Plastic surface operation, complicated. Prolapse of rectum. Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated. Prostatectomy. Resection of stomach Resection of stomach Resection of bowel Rodent ulcer, excision of Salpingo-oophorectomy. Salvarsan or neosalvarsan injection* Skin graft, large. Surface tumors, etc., small. Surface tumors, etc., large. Suspensio uteri.	250.00 300.00 150.00 100.00 250.00 300.00 250.00 400.00 500.00 500.00 500.00 50.00 10.00 50.00 10.00 250.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Plastic Various minor operations Nose Naso-dacryo cystotomy Sinus, ethmoid Sinus, frontal, simple Sinus, frontal, radical Sinus, sphenoid Spur Submucous resection Turbinectomy Various minor operations	150.00 200.00 100.00 25.00 100.00 10.00 50.00 75.00 200.00 100.00 200.00 50.00 75.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy Plastic surface operation, simple Plastic surface operation, complicated. Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated Prostatectomy Resection of stomach Resection of stomach Resection of bowel Rodent ulcer, excision of Salpingo-oophorectomy Salvarsan or neosalvarsan injection* Skin graft, small Skin graft, large Surface tumors, etc., small Surface tumors, etc., large Suspensio uteri Sinus, perio-rectal	250.00 300.00 150.00 150.00 150.00 250.00 300.00 250.00 400.00 500.00 500.00 500.00 10.00 250.00 10.00 250.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Plastic Various minor operations Nose Nose Nose Sinus, ethmoid Sinus, frontal, simple Sinus, maxillary Sinus, sphenoid Spur Submucous resection Turbinectomy	150.00 200.00 100.00 25.00 100.00 10.00 50.00 50.00 75.00 200.00 50.00 75.00 50.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy Plastic surface operation, simple Plastic surface operation, complicated. Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated Prostatectomy Resection of stomach Resection of stomach Resection of bowel Rodent ulcer, excision of Salpingo-oophorectomy Salvarsan or neosalvarsan injection* Skin graft, small Skin graft, large Surface tumors, etc., small Surface tumors, etc., large Suspensio uteri Sinus, perio-rectal	250.00 300.00 150.00 150.00 150.00 250.00 300.00 250.00 400.00 500.00 500.00 500.00 250.00 100.00 250.00 200.00 50.00 250.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Paracentesis Plastic Various minor operations. NOSE. Naso-dacryo cystotomy. Sinus, ethmoid Sinus, frontal, simple Sinus, frontal, radical Sinus, sphenoid. Sinus, sphenoid. Spur. Spur. Submucous resection Turbinectomy. Various minor operations. THROAT.	150.00 200.00 100.00 25.00 100.00 50.00 50.00 75.00 200.00 100.00 200.00 50.00 50.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy Plastic surface operation, simple Plastic surface operation, complicated Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated Prostatectomy Resection of stomach Resection of bowel Rodent ulcer, excision of Salpingo-oophorectomy Salvarsan or neosalvarsan injection* Skin graft, small Skin graft, large Surface tumors, etc., small Surface tumors, etc., large Suspensio uteri Sinus, perio-rectal Thoracoplastic	250.00 300.00 150.00 150.00 250.00 300.00 250.00 400.00 500.00 500.00 500.00 10.00 50.00 250.00 250.00 250.00 300.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Paracentesis. Plastic Various minor operations. Nose. Naso-dacryo cystotomy Sinus, ethmoid Sinus, frontal, simple Sinus, frontal, radical Sinus, maxillary Sinus, sphenoid Spur Submucous resection Turbinectomy Various minor operations. THROAT. Adenoidectomy.	150,00 200,00 100,00 100,00 100,00 10,00 50,00 75,00 200,00 100,00 50,00 75,00 200,00 50,00 75,00 50,00 75,00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation ation Perineorrhaphy. Plastic surface operation, simple Plastic surface operation, complicated. Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated Prostatectomy. Resection of stomach Resection of stomach Resection of bowel Rodent ulcer, excision of Salpingo-oophorectomy. Salvarsan or neosalvarsan injection*. Skin graft, small. Skin graft, large. Surface tumors, etc., small. Surface tumors, etc., large. Suspensio uteri. Sinus, perio-rectal Thoracoplastic. Thoracotomy (empyema) (rib resection)	250.00 300.00 150.00 150.00 250.00 300.00 250.00 400.00 500.00 500.00 50.00 250.00 10.00 50.00 50.00 250.00 10.00 50.00 10.00 50.00 10.00 50.00 10.00 50.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy. Paracentesis. Plastic Various minor operations. NOSE. Naso-dacryo cystotomy. Sinus, ethmoid Sinus, frontal, simple. Sinus, frontal, radical Sinus, frontal, radical Sinus, sphenoid Spur. Submucous resection Turbinectomy. Various minor operations. Adenoidectomy. Cleft palate.	150.00 200.00 100.00 25.00 100.00 50.00 50.00 50.00 100.00 200.00 200.00 50.00 75.00 50.00 75.00 50.00 75.00 75.00 75.00 75.00
Parotid gland tumor, resection. Pelvicperitonitis, chronic, plastic operation. Perineorrhaphy. Plastic surface operation, simple. Plastic surface operation, complicated. Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated. Prostatectomy. Resection of stomach. Resection of stomach. Resection of bowel. Rodent ulcer, excision of. Salpingo-oophorectomy. Salvarsan or neosalvarsan injection*. Skin graft, small. Skin graft, large. Surface tumors, etc., small. Surface tumors, etc., large. Suspensio uteri. Sinus, perio-rectal. Thoracoplastic. Thoracotomy (empyema) (rib resection) Trachelorrhaphy.	250.00 300.00 150.00 150.00 150.00 250.00 300.00 250.00 400.00 500.00 500.00 500.00 100.00 250.00 200.00 100.00 250.00 200.00 100.00 100.00 100.00 150.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Paracentesis. Plastic. Various minor operations. NOSE. Naso-dacryo cystotomy. Sinus, ethmoid Sinus, frontal, simple Sinus, frontal, radical Sinus, maxillary Sinus, sphenoid. Spur. Submucous resection Turbinectomy Various minor operations. THROAT. Adenoidectomy. Cleft palate. Intubation.	150.00 200.00 100.00 25.00 100.00 100.00 50.00 75.00 200.00 200.00 50.00 75.00 50.00 75.00 100.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation ation Perineorrhaphy Plastic surface operation, simple Plastic surface operation, complicated. Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated Prostatectomy Resection of stomach Resection of stomach Resection of bowel Rodent ulcer, excision of Salpingo-oophorectomy Salvarsan or neosalvarsan injection* Skin graft, large Surface tumors, etc., small Surface tumors, etc., large Suspensio uteri Sinus, perio-rectal Thoracotomy (empyema) (rib resection) Trachelorrhaphy Tenorrhaphy	250.00 300.00 150.00 150.00 250.00 300.00 250.00 400.00 500.00 500.00 10.00 250.00 10.00 50.00 250.00 10.00 10.00 50.00 50.00 50.00 10.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Paracentesis. Plastic. Various minor operations. NOSE. Naso-dacryo cystotomy. Sinus, ethmoid Sinus, frontal, simple Sinus, frontal, radical Sinus, maxillary Sinus, sphenoid Spur. Submucous resection Turbinectomy Various minor operations. THROAT. Adenoidectomy. Cleft palate Intubation. Laryngeal resection	150.00 200.00 100.00 25.00 100.00 50.00 50.00 50.00 100.00 200.00 200.00 50.00 75.00 50.00 75.00 50.00 75.00 75.00 75.00 75.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy Plastic surface operation, simple Plastic surface operation, complicated Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated Prostatectomy Resection of stomach Resection of stomach Resection of bowel Rodent ulcer, excision of Salpingo-oophorectomy Salvarsan or neosalvarsan injection* Skin graft, large Surface tumors, etc., small Surface tumors, etc., large Suspensio uteri Sinus, perio-rectal Thoracoplastic Thoracotomy (empyema) (rib resection) Trachelorrhaphy Tenorrhaphy Ureterotomy.	250.00 300.00 150.00 150.00 250.00 300.00 250.00 400.00 500.00 500.00 50.00 250.00 100.00 50.00 250.00 100.00 50.00 250.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Paracentesis. Plastic. Various minor operations. NOSE. Naso-dacryo cystotomy. Sinus, ethmoid Sinus, frontal, simple Sinus, frontal, radical Sinus, maxillary Sinus, sphenoid Spur. Submucous resection Turbinectomy Various minor operations. THROAT. Adenoidectomy. Cleft palate Intubation. Laryngeal resection	150.00 200.00 100.00 25.00 100.00 100.00 50.00 75.00 200.00 200.00 50.00 75.00 50.00 75.00 100.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy. Plastic surface operation, simple. Plastic surface operation, complicated. Prolapse of rectum. Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated. Prostatectomy Resection of stomach Resection of stomach Resection of bowel Rodent ulcer, excision of Salpingo-oophorectomy Salvarsan or neosalvarsan injection* Skin graft, small. Skin graft, large. Surface tumors, etc., small. Surface tumors, etc., large Suspensio uteri. Sinus, perio-rectal Thoracolomy (empyema) (rib resection) Trachelorrhaphy Trenorrhaphy. Uretterotomy. Uretterotomy, ombined or external.	250.00 300.00 150.00 150.00 250.00 300.00 250.00 400.00 500.00 500.00 10.00 250.00 10.00 50.00 250.00 10.00 10.00 50.00 50.00 50.00 10.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Paracentesis. Plastic Various minor operations. NOSE. Naso-dacryo cystotomy. Sinus, ethmoid Sinus, frontal, simple Sinus, frontal, radical Sinus, frontal, radical Sinus, sphenoid Spur. Submucous resection Turbinectomy Various minor operations. THROAT. Adenoidectomy. Cleft palate Intubation. Laryngeal resection Laryngeal resection Phlegmonous infiltration	150.00 200.00 100.00 25.00 100.00 50.00 50.00 50.00 50.00 100.00 200.00 50.00 75.00 50.00 10.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy. Plastic surface operation, simple. Plastic surface operation, complicated. Prolapse of rectum. Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated. Prostatectomy Resection of stomach Resection of stomach Resection of bowel Rodent ulcer, excision of Salpingo-oophorectomy Salvarsan or neosalvarsan injection* Skin graft, small. Skin graft, large. Surface tumors, etc., small. Surface tumors, etc., large Suspensio uteri. Sinus, perio-rectal Thoracolomy (empyema) (rib resection) Trachelorrhaphy Trenorrhaphy. Uretterotomy. Uretterotomy, ombined or external.	250.00 300.00 150.00 150.00 250.00 300.00 250.00 400.00 500.00 500.00 50.00 10.00 50.00 250.00 10.00 50.00 10.00 50.00 10.00 50.00 10.00 50.00 50.00 300.00 150.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Paracentesis. Plastic. Various minor operations. Nose. Naso-dacryo cystotomy. Sinus, ethmoid Sinus, frontal, simple. Sinus, frontal, radical Sinus, maxillary. Sinus, sphenoid Spur. Submucous resection. Turbinectomy. Various minor operations. THROAT. Adenoidectomy. Cleft palate. Intubation. Laryngeal resection. Pikegmonous infiltration. Removal of foreign body from trachea or	150 00 200,00 100,00 25,00 100,00 100,00 50,40 75,00 200,00 100,00 200,00 50,00 75,00 10,00 20,00 10,00 20,00 30,00 25,00 150,00 30,00 30,00 25,00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation ation Perineorrhaphy Plastic surface operation, simple Plastic surface operation, complicated Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated Prostatectomy Resection of stomach Resection of stomach Resection of bowel Rodent ulcer, excision of Salpingo-oophorectomy Salvarsan or neosalvarsan injection* Skin graft, small Skin graft, large Surface tumors, etc., small. Surface tumors, etc., large Suspensio uteri Sinus, perio-rectal Thoracoplastic Thoracoplastic Thoracotomy (empyema) (rib resection) Trachelorrhaphy Trenorrhaphy Ureterotomy, combined or external. Urethrotomy, internal.	250.00 300.00 150.00 150.00 250.00 300.00 250.00 400.00 500.00 500.00 50.00 250.00 100.00 50.00 100.00 50.00 250.00 100.00 50.00 100.00 50.00 100.00 150.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Paracentesis. Plastic Various minor operations. NOSE. Naso-dacryo cystotomy. Sinus, ethmoid Sinus, frontal, simple Sinus, frontal, radical Sinus, frontal, radical Sinus, sphenoid Spur. Submucous resection Turbinectomy. Various minor operations. THROAT. Adenoidectomy. Cleft palate. Intubation. Laryngeal resection Pliegmonous infiltration. Removal of foreign body from trachea or esophagus.	150.00 200.00 100.00 25.00 100.00 50.00 50.00 50.00 100.00 200.00 50.00 50.00 75.00 50.00 50.00 75.00 50.00 50.00 75.00 50.00 75.00 75.00 75.00
Parotid gland tumor, resection Pelvicperitonitis, chronic, plastic operation Perineorrhaphy Plastic surface operation, simple Plastic surface operation, complicated. Prolapse of rectum Prolapsus uteri, plastic operation simple Prolapsus uteri, plastic operation complicated Prostatectomy Resection of stomach Resection of stomach Resection of stomach Resection of stomach Rodent ulcer, excision of Salpingo-oophorectomy Salvarsan or neosalvarsan injection* Skin graft, small Skin graft, large Surface tumors, etc., small Surface tumors, etc., large Suspensio uteri Sinus, perio-rectal Thoracotomy (empyema) (rib resection) Trachelorrhaphy Tenorrhaphy Uretterotomy, Urethrotomy, internal Vaginal puncture.	250.00 300.00 150.00 150.00 250.00 300.00 250.00 400.00 500.00 500.00 50.00 100.00 250.00 200.00 100.00 150.00 300.00 150.00 150.00 150.00 150.00 150.00	Furuncle Mastoid, simple Mastoid, radical Ossiculectomy Paracentesis. Plastic. Various minor operations. NOSE. Naso-dacryo cystotomy. Sinus, ethmoid Sinus, frontal, simple. Sinus, frontal, radical Sinus, maxillary. Sinus, sphenoid. Spur. Submucous resection Turbinectomy. Various minor operations. THROAT. Adenoidectomy. Cleft palate. Intubation. Laryngeal resection Removal of foreign body from trachea or esophagus. Tonsillectomy, single.	150 00 200 00 100 00 25 00 100 00 100 00 50 00 50 00 75 00 100 00 50 00 50 00 50 00 50 00 50 00 50 00 50 00 75 00 50 00 75 00 50 00 75 00
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Employees will be charged for the administration of salvarsan, in accordance with charges to
 employees' families.

Combined operations.—(a) When two or more operations are performed on a patient at the same time, the regular charge will be made for the more expensive operation and one-half of the regular charge for the less expensive operation, i. e., for hernia single, \$150, and for hernia double, \$225; for perincorrhaphy, \$150, and with trachelorrhaphy, \$200. (b) Curettage uteri is included in all female operations without charge. (c) For appendectomy in the course of some other abdominal operation, \$50 extra

SCHEDULE OF CHARGES FOR X-RAY EXAMINATIONS.

Parts.	Class 1.	Class 2.	Class 3.	Parts.	Class 1.	Class 2.	Class 3.
Dental	*\$2.00	\$3.00	\$5.00	Kidneys		\$4.50	\$15.00
Fingers	1.00	1.50	10.00	UreterBladder	3.00	4.50	15.00 15.00
Hand		1.50	10.00	Chest, fluoroscopic examina-	3.00	1.00	10.00
Wrist		1.50	10.00	tion	3.00	4.50	15.00
Toes	1.00	1.50	10.00		0.00	1.00	10.00
Foot-metatarsals	1.00	1.50	10.00	Urinary tract, entire		6.00	20.00
_				Spine, two sections		6.00	20.90
Forearm		3.00	10.00	Pelvis-sterios, or two views		6.00	20.00
Elbow		3.00	10.00	Chest—sterios, or two views	4.00	6.00	20.00
Arm	2.00	3.00	10.00	A7 1			07.00
Ankle	2.00	3.00	10.00	Abdomen, entire	5.00	7.50	25.00
KneeThigh	2.00	3.00	10.00	Stomach, fluoroscopic exam-	5.00	7.50	25.00
I IIIgII	2.00	3.00	10.00	Gastro-intestinal, series, 6 to 8	0.00	7.00	20.00
Shoulder	3.00	4.50	15.00	plates	5.00	7.50	25.00
Neck	3.00	4.50	15.00	piaco	0.00	1.00	20.00
Jaw	3.00	4.50	15.00	Gastro-intestinal, two series of			
Head	3.00	4.50	15.00	plates	10.00	15.00	30.00
Spine, one section	3.00	4.50	15 00	Gastro-intestinal, 6-hour and			
Chest, one view	3.00	4.50	15.00	24-hour plates, each	1.00	1.50	5.00
Pelvis, one view	3.00	4.50	15.00	Fluoroscopic examination in			
Gall bladder		4.50	15.00	connection with above		1.50	5.00
Liver	3.00	4.50	15.00	X-ray treatments	1.00	1.50	5.00

*Dental X-ray examinations for employees (except for diagnostic purposes at the request of a physician, or or account of injury in line of duty) will be charged for at this rate.

All genito-urinary examinations requiring injection of bladder, ureters, or kidney; the charge of part plus \$2. For localization of foreign bodies, the charge of part plus \$2.

Where two or more parts are examined, the charge will be sum of charges for each part.

For examination not listed, charge estimated.

Class 1 will include: a. Families of all employees of the United States Government. b. Persons engaged solely in charitable and religious work in the Canal Zone and their families. c. Servants of all employees of the United States Government, and their families. d. Families of laborers and artisans regularly employed by individuals or companies in the Canal Zone.

Class 2 will include: a. Laborers and artisans regularly employed by individuals or companies in the Canal Zone. b. All employees of the United States Government (except The Panama Canal). c. American and foreign seamen. d. Physicians and nurses not in the employ of The Panama Canal.

Class 3 will include: a. Nondependent visitors of employees of The Panama Canal and Panama Railroad. b. White employees—of companies—who work in the Canal Zone, and their families. c. Private pay patients.

SCHEDULE OF LABORATORY AND MISCELLANEOUS CHARGES.

		- 13171	JORAI				CEANI					
	Adult's.	Child's.	Cremation. (4)	Disinterment.	Embalming.	Funeral direction.	.86. (5)	Interments.		ling cets.	Receptacies for ashes of cremated.	Ambulance service.
	Adu	Chil	Crer	Disi	Eml	Fun	Hearse.	Inte	Adult's.	Child's.	Rec	Am
Employees of The Pana- ma Canal or the Pana- ma Railroad	*84.00			*\$10.00	*\$10.00		(2)			*\$20.00		Free
Families of employees of The Panama Canal or Panama Railroad, when monthly pay of employee is \$75 or less												
(36c per hr. or less) \$75.01 and over per mo.	4.00	2.00	\$2.50	10.00	10.00	Free	(3)	4.00	30.00	20.00	\$2.00	Free
(37c per hr. and over)	4.00	2.00	6.00	10.00	10.00	\$5.00	(3)	10.00	30.00	20.00	2.00	Free
Servants of all employ- ees of the United States.	4.00	2.00	2.50	10.00	10.00	Free	(3)	4.00	30.00	20.00	2.00	Free
All classes of patients not listed in this sched- ule	4.00	2.00	6.00	10.00	10.00	5.00	(3)	10.00	30.00	20.00	2.00	Free
Private pay patients	6.00	2.50	15.00	10.00	15.00	10.00	\$10.00	25.00	35.00	20.00	2.00	\$2.50-10

^(*) Free for American employees only. (*) Free for American employees only. For all other employees, from Ancon Hospital morgue to Corozal cemetery, \$5.00; from Ancon Hospital morgue to Panama cemetery, free. (*) From Ancon Hospital morgue to Panama cemetery, \$2.50. (*) Stillborn children free. (*) Charge for hearse service at Colon is \$1 for each trip, for all classes of patients, except American employees; free for the latter class.

The following items are free to all classes of patients except private pay patients,

file shan be charged the following is	accs.	
Urine examinations \$3	3.00 Tissue examinations \$	
Wassermann test	6.00 Anti-typhoid vaccine, per dose	1.50
Anti-smallpox vaccination 1	1.50 This is free to all residents of the Canal	
Autogenous vaccine:	Zone or Republic of Panama.	
For first vial	6.00 Tetanus anti-toxin, per dose	5,00
For each vial after first		

Charges will not be made for laboratory examinations for contagious, infectious, or quarantinable diseases, other than venereal diseases. For other laboratory work, charges will be made according to this schedule, except when certified to by the attending physician as necessary for diagnosis. Laboratory work not specified in this schedule will be charged for according to the time spent and materials used, with a surcharge for work requiring expert knowledge or skill.

School Holidays.

Canal Zone public schools will be closed for the Christmas holidays from Saturday, December 20, 1919, to January 4, 1920, inclusive.

Road Change between Corozal and Miraflores Hill.

The main road between Corozal and Miraflores Hill, passing through Fort Clayton, was closed on December 22, and traffic between these points is using the old Corozal-Pedro Miguel road to the east.

The road will be closed until approximately February 1, 1920. The closing was made in order to allow widening of the existing road, now

18 feet wide, to 25 feet in the section through Fort Clayton.

School for Apprentices.

An apprentice school, with the main room on the third floor of the Mechanical Division office building at Balboa and a branch at the Cristobal shops, is maintained to provide instruction in technical subjects to apprentices of all trades on the Canal Zone. Each apprentice is entitled to attend class in the school on one afternoon (four hours) each week, and receives his regular rate of pay while attending school. Classes are arranged by grouping the apprentices according to the nature of their shop or trade work, the aim being to bring together in the same class those trades which bear the closest relation or greatest similarity to each other. The following schedule shows the general grouping of apprentices for classwork:

Monday, 12 to 4 p. m. (Balboa)—Sheet and plate metal workers. (Boiler makers.

Tuesday, 12 to 4 p. m. (Balboa)—Machinists. Wednesday, 12 to 4 p. m. (Balboa)—Miscellaneous group, hot metal workers welders, molders, automobile repairmen, electricians, chemists, etc.
Thursday, 12 to 4 p. m. (Balboa)—Woodworking and building trades.
Friday, 12 to 4 p. m. (Cristobal)—All apprentices at Cristobal.

Some deviations from the above schedule are necessary in order to adjust the size of the group to the drafting equipment. In any case where a new apprentice is to report for Apprentice School work arrangement should be made by the supervising official with the apprentice instructor (telephone 516, Balboa) so that the apprentice may be directed to report with the proper group.

Instruction is given in mechanical drawing and blueprint reading, shop mathematics and mechanics, working principles of power machinery, and shop and business English. The subject matter in each subject is adapted to the shop needs of the apprentice. Thus, machine drawing is emphasized in the machinists' group, development of surfaces and laying out by triangulation, etc., is emphasized in the sheet metal working group, considerable attention is given to wiring diagrams with the electricians, and architectural drawing will be taught to the building trades' apprentices. Likewise, in mathematics, the electricians are given electrical problems and are taught the essentials of direct and alternating current theory, while the mechanical trades

are given problems based directly on their shopwork.

A definite record is kept of the work of the apprentice in both the shop and school throughout the entire four years of his apprenticeship. This is kept on an apprenticeship record card on which ratings or marks for his work in both shop and school are entered every three months, the mark for the shopwork being entered by the foreman under whom the apprentice is working. Promotion to the various classes of apprenticeship is contingent upon the attainment of a satisfactory rating for the work in shop and school for the class from which the apprentice is to be promoted. The minimum satisfactory rating is 70 per cent. The classes of apprentices are as follows:

First year	5th class apprentice
Second year	4th class apprentice
Third year, first 6 months	3d class apprentice
Third year, second 6 months	2d class apprentice
Fourth year	1st class apprentice

Bubonic Plague.

On account of the reported presence of bubonic plague among rats in New Orleans, the Health Department is taking special care at Colon and Cristobal to prevent the entrance of rats from ships, to work down the rat population, and to have premises, especially about warehouses, cleaned and arranged to afford the minimum of shelter and subsistence to rats. This sort of work goes on all the time, in Colon and Panama as well as the Canal Zone, and last year over 38,000 rats were destroyed. The possibility of the entrance of plague is regarded as the greatest health menace to which the Isthmus is now subject, and rats, as the most frequent carriers of the disease, are the object of the principal preventive measures. In the clean and open villages of the Canal Zone they have relatively small opportunities, but around warehouses and stores, and in the older and darker buildings of Panama and Colon they abound in numbers. They are fecund, producing from 10 to 14 young in a litter, and having two and three litters in a year.

Plague is reported by British medical authorities to have been responsible for over ten and a half million deaths in India since its

invasion of India in 1896.

Mail for Quartermaster, Ancon-Balboa District.

The district quartermaster for the Ancon-Balboa district requests that mail for his office be addressed to Balboa Heights, and not to Ancon or Balboa post offices, to which the district quartermaster's office does not send messengers.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286). Age limits do not apply to persons entitled to preference because of military or naval service.

Tariff Clerk (male and female); \$1,620 a year; January 7, 1920; form 1312; age, 21 years but now

50 years.

Special agent, Special Intelligence Unit, Bureau of Internal Revenue (male and female); \$1,500 to \$3,000 a year; January 7, 1920; form 1312; age 25 years but not 45 years.

Superintendent (Director), Bureau of Fisheries (male and female); \$1,800 a year; December 30, 1919; form 1312; age, reasonable age limits.*

Tinner (male and female); \$85 a month; January 6, 1920; form 1800; age, over 20 years.*

Mechanical assistant in refrigeration (male and female); \$1,200 to \$1,400; No. 534-amended; January 6, 1920.*

Trained nurse, change in age limit for positions in the Indian Service; No. 1952-amended—supple-

Trained nurse, change in age limit for positions in the Indian Service; No. 1952-amended—supplemental; age, 20 years, but not 45 years.

Associate physicist qualified in aeronautics (male and female); No. 13; \$3,000 a year; January 6. 1920; form 1312; age, 22 years but not 45 years.*

Mechanical engineer in experimental work (male and female); No. 14; \$7.28 per diem; January 6. 1920; form 2118; age, 25 years but not 40 years.*

Bacteriologist, junior bacteriologist (male and female); No. 10; \$130 to \$180 per month, \$70 to \$90 per month; January 6, 1920; form 1312; age, over 18 years.*

Tester of tractors (male and female); No. 583; \$3,000 a year; December 30, 1919; form 1312; age, over 25 years.*

over 25 years

Cotton technologist (male and female); No. 584; \$3,000 to \$4,000 a year; December 30, 1919; form 2118; age, 30 years but not 45 years.*

Accounting and statistical clerk (male and female); No. 11; \$1,500 a year; January 7, 1920, and February 18, 1920; form 1312; age, 21 years but not 50 years.

Administrative assistant, chief clerk—administrative assistant, property officer—administrative assistant, mess officer—administrative assistant, pharmacist (male and female); \$1,200 to \$1,560 with bonus, and quarters, subsistence and laundry; January 7, 1920; form 1312; age, 25 years but not Dictitian (male and female); \$960 a year; January 12, 1920; age, over 21 years.*

Fire-prevention engineer (male and female); \$2,500 to \$4,000 a year; January 13, 1920; age, over 25 years.*

*Nonassembled. Date given for nonassembled examinations is the last day for filing applica-tions, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

Deceased Employees.

The estates of the following deceased employees of The Panama Canal are now in process of settle nent, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once is order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of-	lsthmian residence.	Employed by—	Date of death
Thomas Lescene Charles W. H. Morri-	41583	Jamaica	Panama	Cattle Industry	December 9, 1919.
60D	23262 26834	Jamaica Nicaragua	Paraiso Colon	M. and H. Sec	November 12, 1919. December 13, 1919.

Official Circulars.

Substitution of Octagonal Metal Checks for Checks Previously Used.

THE PANAMA CANAL. EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., December 11, 1919. CIRCULAR No. 722-3:

1. Effective January 1, 1920, or as soon thereafter as practicable, an octagonal metal check will replace all identification checks now in use.

Checks Nos. 1 to 20,000 will be reserved for gold employees.
3. Checks Nos. 20,001 upward, will be reserved

for silver employees.

4. No metal checks of a special series will be assigned to any unit of the work.
5. Under no circumstances, will the original metal check issued be lifted.
6. In order that former employment may not

be concealed, foreman or party employing, should make every effort to ascertain from each new employee whether he has a check of the current issue in his possession, before issuing him a new check.

7. A deduction of 50 cents for a lost or mutilated metal check will be made. Such charge is made to cover change of records and will not be refunded, even though lost metal check may be subsequently found.

8. New metal checks will be substituted for old series to an entire gang simultaneously, and will be delivered personally by the time inspector on the job. Metal checks of obsolete series may be retained by employees.

9. After a gang has been supplied with new metal checks, when new employees are taken on, the party employing them will carefully fill out

employment cards, form No. 5607, for each silver employee and issue a metal check on the day the employee's services commence, provided such employee is not already in possession of a check

of the current issue.

10. A supply of metal checks will be issued to foremen or others in charge of gangs, upon written request to the Auditor, The Panama Canal, or in case of emergency, upon telephoning

Canal, of in case of emergency, upon exceptions.

Balboa 14.

11. With each supply of metal checks will be furnished a like number of employment cards, form No. 5607, which will bear (printed on reverse) instructions for use.

CHESTER HARDING,

Rates for Motor Transportation.

THE PANAMA CANAL,

SUPPLY DEPARTMENT,

Balboa Heights, C. Z., December 16, 1919.

To all concerned—Effective January 1, 1920, the following motor transportation rates will be charged against departments and divisions of The Panama Canal:

	Per hour
Jitneys	\$1.00
Ford ½-ton delivery trucks	65
Ford and Form A 1-ton trucks	80
Ford 1-ton garbage trucks	1.00
One and one-half ton trucks	2.20
Two and one-half ton trucks	2.40
Three and one-half ton trucks	2.65

Approved:

R. K. Morris Chief Quarter master.

J. J. Morrow. Acting Governor.

Acting Chief Hydrographer.

THE PANAMA CANAL, EXECUTIVE OFFICE.

BALBOA HEIGHTS, C. Z., December 20, 1919. To all concerned—Effective December 22, 1919, and during Mr. R. Z. Kirkpatrick's absence on leave, Mr. H. G. Cornthwaite will be Acting leave, Mr. H. G. C Chief Hydrographer.

JAY J. MORROW, Acting Governor.

Ratings for Conduct and General Workmanship.

THE PANAMA CANAL, EXECUTIVE OFFICE.

BALBOA HEIGHTS, C. Z., December 20, 1919

HEADS OF DEPARTMENTS AND DIVISIONS:

Attention is called to the following, which is contained in paragraph 6, Circular 604:
"'Upon papers of transfer, promotion, demotion, change of rating, and termination of employment, the head of the department shall indorse a rating for 'conduct' and 'general workmanship.' The ratings authorized are 'excellent,' 'very good,' 'good, 'mediocre,' and 'poor,' and only these terms shall be used."

Please be governed accordingly in forwarding

Please be governed accordingly in forwarding papers to this office.

By direction of the Acting Governer. C. A. MCILVAINE, Executive Secretary.

Panama Railroad Holiday Schedule.

PANAMA RAILROAD COMPANY,

OFFICE OF MASTER OF TRANSPORTATION, BALBOA HEIGHTS, C. Z., December 22, 1919.

All concerned—The Panama Railroad will operate Saturday schedule Wednesday, December 24, and Wednesday, December 31, and Sunday schedule Thursday, December 25 and Thursday, January 1, on the main line and Las Cascadas branch.

Local freights will not run December 25 nor

January 1.

W. F. FOSTER,

Master of Transportation. Approved: S. W. HEALD, Superintendent.

Joint Commission.

Awards.

In the matter of the claim of the American Trade Development Company, for property situated at Pueblo Nuevo, award No. 210, docket No. 3596, December 16, 1919—An award is hereby made against the United States in favor of the American against the United States in layor of the American Trade Development Company in the sum of \$6,500 United States currency, for all right, title, and interest the said American Trade Development Company may possess or may have possessed in and to the property situated at Pueblo Nuevo, subject of claim docket No. 3596, including buildings located thereon and any and all damages sustained on account of the expropriation of this property by the United States of America. America.

America.

This award shall be paid on or before the 16th day of January, 1920, and if payment or tender of payment is not made on or before that date, said award shall thereafter bear interest at the rate of six per centum per annum until paid.

Done in the National Palace, Panama, on the 16th day of December, 1919.

FEDERICO BOYD, GEORGE A. CONNOLLY, JULIO J. FABREGA, BURT NEW, Commissioners.

In the matter of the claim of Ramon Arias Feraud, for property known as Isla de Tacho, award No. 211, docket No. 3595, December 16, 1919—An award is hereby made against the United States in favor of Ramén Arias Feraud

in the sum of \$3,150, United States currency, for all right, title, and interest the said Ramon Arias all right, title, and interest the said Ramon Arias Feraud may possess or may have possessed in and to the property known as "Isla de Tacho," subject of claim docket No. 3595, including improvements of whatever nature located thereon and any and all damages sustained on account of the exprepriation of this property by the United States of America.

This award shall be paid on or before the 16th day of January, 1920, and if payment or tender of payment is not made on or before that date, said award shall thereafter bear interest at the rate of six per centum per annum until paid.

paid.

Done in the National Palace, Panama, on the

16th day of December, 1919.

FEDERICO BOYD, GEORGE A. CONNOLLY, JULIO J. FABREGA, BURT NEW, Commissioners.

Rules of Dismissal.

In the matter of the claim of Robert Wilcox, administrator of the estate of A. B. Monteverde, deceased, rule of dismissal No. 436, docket No. 2696, December 15, 1919—After a complete hearing and argument of the above-entitled claim the Commission is of the opinion that the case presented comes within the purview of the decision sented comes within the purview of the decision heretofore rendered by the Commission in the matter of the claim of Agusta Dunlop, claim docket No. 7, on Apil 16, 1913, and upon the authority of the decision in that case the above-entitled claim is beyond the jurisdiction of the Commission and the same is therefore hereby

FEDERICO BOYD, GEORGE A. CONNOLLY, BURT

NEW, Commissioners.

I dissent from the above finding. JULIO J. FABREGA, Commissioner.

In the matter of the claim of Eduardo Icaza, for properly known as "Potrero y Manginga," rule of dismissal No. 437, docket No. 3047, December 19, 1919—With reference to the claim of Eduardo Icaza, docket No. 3047, a motion was filed by claimant on December 18, 1919, requesting that the Commission dismiss this claim for the reason that he has made settlement direct with the that he has made settlement direct with the representatives of the United States Government.

In view of such settlement the above claims calls for no further action on the part of the Commission, and said claim is accordingly hereby dismissed.

FEDERICO BOYD, BURT NEW, JULIO J. FABREGA, GEORGE A. CONNOLLY, Commissioners.

In the matter of the claim of Martin Linczer, for properly known as "Pulanquilla" and "Frijol Grande," rule of dismissal No. 438, docket No. 3330, December 19, 1919—With reference to the claim of Martin Linczer, docket No. 3330, the Members of the Commission are of the unanimous opinion that the property for which claimant demands payment in this claim was covered by Award No. 4, of June 25, 1913, under docket Nos. 103, 122, and 124, and the above claim is therefore hereby dismissed.

FEDERICO BOYD, GEORGE A. CONNOLLY, JULIO J. FABREGA, BURT NEW, Commissioners.

Examination for Colored Teachers.

An examination will be held at the office of the An examination will be need at the office of the Superintendent of Schools, Administration Building, Balboa Heights, Friday and Saturday, January 9 and 10, 1920, for colored teachers who desire to qualify for consideration for teaching positions in the Canal Zone colored schools as openings may occur from time to time.

occur from time to time.

All interested should forward their credentials and applications for taking examination to the Division of Schools, Balboa Heights, C. Z., and be on hand for the examination on those two days, as another examination for this purpose is not being planned for this school year.

Misdirected Letters.

BALBOA HEIGHTS, C. Z., December 22, 1919.

Balboa Heights, C. Z., December 22, 1919.

The following insufficiently addressed letters have been received in the office of the Director of Posts, and may be obtained upon request of the addressees. Requests may be made by telephone, calling No. 182, Balboa:
Berth, Chas. H.
Cristo, Miss Elva
Darcey, James
Evans, John Asbby
Forde, R. E.
Gray, Anderson
Hart, Mrs. Jas. A.,
Box 234

The following insufficiently addressed letters and the processing in the office of the Director of the Directo

Box 234 Box 234 Jensen, Fred H. McGill, Joseph E. McIlroy, Wm. H. Marvel, Mrs. George Miller, Marion A. Ott, V. L.

Phillips, Mrs. Ester Pilgrim, Alexander Rehberg, Louis, Box 646 Reynolds, Albert Saunders, Peter, Box 916 Whitton, A. C. Miss Mabel, Willings, Box 195.

Sale of Bumpers for Ford Cars.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10.30 a. m., December 29, 1919, and then opened, for the purchase of fifty-four (54) bumpers for Ford cars. Bids may be made on the entire lot or on any number. The bumpers may be inspected at the Electrical Storehouse, Section "K," Balboa. Conditions

of sale and form of proposal may be had upon application to the office of the Chief Quarter-master. The Panama Canal reserves the right to reject any or all bids.

Sale of Engine Lathe.

Sealed bids will be received at the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10 a. m. December 27, 1919, and then opened for the purchase of one engine lathe, which can be seen at the Instrument Repair Shop, Balboa. Description of lathe and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or call. Canal reserves the right to reject any or all

Sale of New and Second-hand Farm Implements on hand at Cristobal Store.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10 a. m., February 16, 1920, and then opened, for the purchase of a miscellaneous lot of farm implements at Cristobal Store. Detailed information showing complete list of items for sale and form of proposal may be had upon application to the office of the Chief Quartermaster. Bids will be received on the entire lot, or any single item or group of items. The Panama Canal reserves the right to reject any or all bids. any or all bids.

COMMISSARY NOTES.

Books.

Books received:

"The Miracle Man," by Frank Packard; "The War Lord of Mars," by Edgar Burroughs.

Christmas Decorations.

Mistletoe, holly, and evergreen for the Christmas trade have been received from the States.

Aprons.

Bungalow aprons, in percales and ginghams, are now on sale in the line commissaries. These are in plain colors, figured designs, and plaids, and attractively trimmed with braid, pique, and contrasting colors. These range in price from \$1.40 to \$2.45.

Pillowcases.

The Commissary Division has recently received and forwarded to the line stores a shipment of good quality cotton pillowcases. These are embroidered in white, some with scalloped edges, and in the attractive blue bird designs. The prices are \$1.80 and \$2.20 per pair.

Hosiery.

The manufacturers of a brand of hosiery greatly favored by commissary patrons have advised that they will not be able to make deliveries on commissary requisitions before the early part of next year. They also state that they are not yet in position to fix their spring prices.

Notification of Inventory.

Commissaries will be closed for quarterly inventory all day on Tuesday, December The grocery and cold storage sections will be opened not later than 10 a.m. on Wednesday, December 31, and other departments as soon as the check by the Auditor's representatives has been completed.

Fancy Goods.

Arriving somewhat late for the Christmas shopping season are scarfs, centerpieces, and doilies. These are of a good quality cotton material and attractively trimmed with filet lace. The scarfs, priced at \$1.10, \$1.25, \$1.50, and \$1.75 each, are unusual values, the centerpieces are in a wide range of sizes and prices, and the doilies, ranging in price from 20 cents to 31 cents, are equally desirable. These will be placed on sale Wednesday, December 24.

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THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50: address The Panama Canal Record, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C.



Entered as second-class matter February 6, 1918, at the Post Office at Cristobal, C. Z., under the Act of March 3, 1879.

Volume XIII. Balboa Heights, C. Z., December 31, 1919. No. 20.

Census of the Canal Zone.

A census of the Canal Zone will be taken during the month of January, in accordance with the law providing for such census, and following instructions from the United States Bureau of The Census. Officials and employees of The Panama Canal and Panama Railroad are urged to facilitate this work by all means in their power. A proclamation of the President on this subject follows:

Fourteenth Decennial Census of the United States.

By the President of the United States of America—A Proclamation:

Whereas, by the Act of Congress approved March 3, 1919, the Fourteenth Decennial Census of the United States is to be taken beginning on the second day of January, 1920; and

Whereas, a correct enumeration of the population every ten years is required by the Constitution of the United States for the purpose of determining the representation of the several States in the House of Representatives; and

Whereas, it is of the utmost importance to the interests of all the people of the United States that this Census should be a complete and accurate report of the popu-

lation and resources of the Nation; Now, Therefore, I, Woodrow Wilson, President of the United States of America, do hereby declare and make known that, under the law aforesaid, it is the duty of every person to answer all questions on the census schedules applying to him and the family to which he belongs, and to the farm occupied by him or his family, and that any person refusing to do so is subject to penalty.

The sole purpose of the census is to secure general statistical information regard-

ing the population and resources of the country and replies are required from individuals only to permit the compilation of such general statistics. No person can be harmed in any way by furnishing the information required. The Census has nothing to do with taxation, with military or jury service, with the compulsion of school attendance, with the regulation of immigration or with the enforcement of any national, state or local law or ordinance. There need be no fear that any disclosure will be made regarding any individual person or his affairs. For the due protection of the rights and interests of the persons furnishing information every employee of the Census Bureau is prohibited, under heavy penalty, from disclosing any information which may thus come to his knowledge.

I therefore earnestly urge upon all persons to answer promptly, completely and accurately all inquiries addressed to them by the enumerators or other employees of the Census Bureau and thereby to contribute their share toward making this

great and necessary public undertaking a success.

IN WITNESS WHEREOF I have hereunto set my hand and caused the seal of the

United States to be affixed.

DONE in the District of Columbia this tenth day of November, in the year of our Lord one thousand nine hundred and nineteen, and of the independence of the United States the one hundred and forty-fourth.

By the President:

WILLIAM PHILLIPS,

WOODROW WILSON

Acting Secretary of State.

[No. 1540.]

The information required of persons is as follows:

PLACE OF ABODE.

Street, avenue, road, etc.
 House number (in cities or towns).
 Number of dwelling house in order of visitation.

NAME.

5. Name of each person whose place of abode on January 1, 1920, was in this family. Enter surname first, then the given name and middle initial, if any. Include every person living on January 1, 1920. Omit children born since January 1, 1920.

RELATION.

6. Relationship of this person to the head of the family.

OWNERSHIP OF HOME.

- 7. Owned or rented. 8. Owned free or mortgaged. 9. Number of farm schedule. PERSONAL DESCRIPTION.
- 10. Sex. 11. Color or race. 12. Age at last birthday. 13. Whether single, married, widowed. or divorced.

CITIZENSHIP.

- 14. Whether naturalized or alien. 15. Year of immigration to the United States. EDUCATION.
- 16. Attended school any time since September 1, 1919. 17. Whether able to read. 18. Whether able to write. NATIVITY AND MOTHER TONGUE.1

(Place of birth of each person and parents of each person enumerated. If born in the United States, give the State or territory. If of foreign birth, whether the person, father, or mother, give the country and mother tongue.

19. Place of birth. 20. Mother tongue.

Father.

21. Place of birth. 22. Mother tongue.

Mother.

23. Place of birth. 24. Mother tongue.

25. Whether able to speak English.

OCCUPATION

- 26. Trade, profession, or particular kind of work done, as spinner, salesman, laborer, etc.
 27. Industry, business, or establishment in which at work, as cotton mill, dry goods store, farm. elc.
 - 28. Whether employer, wage earner, or working on own account.

Dutch Service to the Isthmus and the West Coast.

The Royal Netherlands Steamship Company (Koninklijke Nederlandsche Stoomboot Maatschappij) is operating approximately a monthly service through the Canal between Amsterdam and Valparaiso. On the outward voyage the ships sail for Valparaiso direct; for the homeward voyage they receive orders at Valparaiso as to calls at ports between Valparaiso and the Canal, nitrates forming the bulk of the return cargo and determining the course of the ships. The line carries passengers.

Royal Dutch West India Mail.

The Royal Dutch West India Mail (Koninklijke West Indische Maildienst) is operating a service with two ships a month in each direction between Amsterdam and Caribbean ports, carrying cargo and passengers. On the outward voyage the calls are usually Trinidad, and regularly La Guaira, Curação, Puerto Colombia, Cartagena, Port Limon, and Cristobal, and returning the calls are as traffic warrants, normally Puerto Colombia, Curação, and La Guaira, with other calls depending on orders.

Postal and Cable Address of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington D C."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

Mail for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

⁽¹⁾ By mother tongue is meant the language of customary speech in the homes of the immigrants before immigration. This inquiry was authorized by Congress in 1910, by amendment of main Census Act, after schedules and instructions had been printed, and is again provided for in Section 8 of the Fourteenth Census Act.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending December 27, 1919.

				Car	go
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Middlebury. Salvador. Huallago. Palena Balboa. Guatemala. Colon. Bonnafon. Mendocino. Parismina Lake Wilson Lake Hurst. Turrialba. Manuel Calvo Zacapa. Norman Bridge. Llay-Llay.	Line or charterer. Panama Railroad Cattle Industry. Pacific Steam Navigation Co Peruvian Steamship Line. Chilean Steamship Line. Colombian Maritime Co. Pacific Steam Navigation Co Panama Railroad Steamship Line. Huasteca Petroleum Co United Fruit Co Panama Railroad Steamship Line. Panama Railroad Steamship Line. United Fruit Co Panama Railroad Steamship Line. United Fruit Co Spanish Steamship Line. United Fruit Co PanAmer. Pet. & Transp. Co Indies Nav. Co	December 21. December 22. December 23. December 23. December 23. December 23. December 24.	December 21 December 22 December 23 December 23	2,688 2,688 2,635 9,900 1,716	Tons. 4 936) 822 350 782 3,090 (†) (†) 59 19 54) 117 (†)
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^{*}Transport.

† No cargo laded.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending December 27, 1919.

				Car	go
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Lake Fairfax Balboa Valdez Guatemala Lake Fitch Lake Fibre Oloekson	United States Shipping Board Colombian Maritime Co Alaska Steamship Co Pacific Steam Navigation Co United States Shipping Board. United States Shipping Board. United States Shipping Board.	December 19 December 23 December 23 December 23 December 22 December 22 December 25	December 21 December 23 December 23 December 24 December 24 December 27	Tons. (*) (†) (†) (†) 3,638 3,297 953	Tons. (1) 29 (1) (1) (1) (1) (1)
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^{*}Reported in issue of December 24, 1919.

†No cargo discharged.

tNo cargo laded.

Supplement No. 3 to Tariff No. 3.

THE PANAMA CANAL, PANAMA RAILROAD COMPANY,
BALBOA HEIGHTS, C. Z., December 13, 1919.
The following amendments are made to Tariff No. 3, Schedule of Rates for Supplies

and Services Furnished to Shipping and Allied Interests at the Panama Canal:

ITEM 28.—MEDICAL AND HOSPITAL TREATMENT. Effective December 1, 1919.

- Ward treatment for seamen, \$2.25 per day. Operations, 10 per cent of scheduled price, that is, from \$1 to \$50. X-ray examinations, \$1.50 to \$15. Office con-sulation at hospital or dispensary, \$1; surgical dressings without consultation,
- 2. Ward treatment for passengers and others, \$5 per day; private room, \$7.50 per day. Charges for operations, X-ray examinations, and other services are at scheduled prices and are in accordance with charges for the same services in other hospitals. Office consultation at hospital or dispensary, \$3; surgical dressings without consultation, \$1.50.

ITEM 29.—QUARANTINE. Effective January 1, 1920.

1. Subsistence, etc., in quarantine, per day: For cabin passengers.....\$3.00 For steerage passengers.

CHESTER HARDING, 1.00

Governor The Panama Canal. President Panama Railroad Company.

MOVEMENTS OF OCEAN VESSELS.

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Week ending at Midnight, December 27, 1919.

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	PORT OF CRISTOBAL.		Date.	Dec. 21 Dec. 24 Dec. 25 Dec. 25 Dec. 25 Dec. 25 Dec. 25 Dec. 25 Dec. 27 Dec. 27	PORT OF BALBOA.
United States Navy British India Steam Navy Pervivan Line W. Withelmsen F. & W. Ritson F. & W. Ritson W. R. Rison W. R. Grace & Co Gow Harrison & Co New Zealand Shipping Board W. R. Grace & Co New Zealand Shipping Co Placific Steam Navigation Co United Steam Navigation Co Placific Steam Navigation Co Placific Steam Navigation Co Reach Government French	PORT OF		m.	ia Habana. nd Kingston. orts.	PORT OF
United States N. British India Ste British India Ste United States Sh. W. Wilkelmsen. F. & W. Ritson. French Governa Johnson Line. W. R. Grace & C. Gow Harrison, & New Zealand Sh. United States Sh. United States Sh. United States Sh. W. R. Grace Moverna French Governa American-Hawaiin French Governa American-Hawaiin French Governa W. Wilhelmsen. W. Wilhelmsen. W. Wilhelmsen. Shaw Saville Albh New Zealand Sh. New Zealand Sh.			From.	Plymouth. (Orfold Aampio Vew York Vew York Sluefields Vew York Sluefields Vew York at Habana Habana Vew York and Kingston Aiden poorts Aidvarpool Aidvarpool Vew Orfeans Sispata Sartagena Vew York Vew York Vew York Verent Mingston Vorent Mingston Vo	
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7 11 21 6.15 21 15.40 American 6.20 21 8.04 21 16.12 21 21 05 British 1.20 21 19.25 21 20.05 British 1.20 21 19.25 21 20.40 21 9.20 21 17 Nerwegian 6.30 22 11.30 22 19.40 22 21.50 British 6.30 22 11.30 22 19.40 22 21.50 British 6.30 25 6.15 25 14.17 26 18.00 French 6.30 25 7 4.0 25 15.47 26 15.47 Swedish 6.30 25 7 4.0 25 15.47 25 15.47 Swedish 6.35 25 15.50 15.00 15.00 French 6.35 25 15.00 25 19.25 25 15.47 25 15.47 Swedish 6.35 25 11.30 25 10.25 25 15.47 25 11.30 25 25 11.30 25 25 25 25 25 25 25 25 25 25 25 25 25	(c) Mine sweeper. (d) For orders.		Line.	HAL HALLHARD BOOK	

Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

Dec. 27..... | Anyo Maru..... | Toyo Kisen Kaisha..... | Hongkong.

*DEPARTURES.

Other than ships passing through the Canal,

Dec. 26..... Anyo Maru..... Toyo Kisen Kaisha..... Valparaiso.

*ARRIVALS.

Largest Cargo through the Canal.

The steamship *Orca* of the Pacific Steam Navigation Company, passing through the Canal from Pacific to Atlantic on December 18, carried the largest cargo which has been taken through the Canal on any one vessel. It amounted to 15,753 tons, weight and space measurement, and consisted of general cargo from Chilean and Peruvian ports for Liverpool. The *Orca* is a ship of 15,120 tons gross and 9,449 tons net, registry measurement; her Canal gross and net tonnage are 15,931 and 10,846, respectively. Her length is 550 feet 3 inches, beam 67 feet 3 inches, and her draft in salt water at time of transit through the Canal was 33 feet 4 inches. Tolls paid for transit of the Canal amounted to \$11,816.25.

The following is a list of ships which have passed through the Canal

carrying over 12,000 tons of cargo:

Direction.	Date.	Vessel.	Nationality.	Cargo.	Kind of cargo.
Direction. Pacific to Atlantic Pacific to Atlantic Atlantic to Pacific . Pacific to Atlantic . Pacific to Atlantic . Pacific to Atlantic . Atlantic to Pacific . Pacific to Atlantic . Atlantic to Pacific .	Date. June 25, 1915 August 17, 1915 August 4, 1916 August 21, 1916 April 20, 1917 June 17, 1917 June 17, 1917 June 24, 1917 September 13, 1917 September 29, 1917 October 23, 1917 November 5, 1917 November 19, 1917.	Alaskan. Arizonan P rt Nicholson. Orari Raranga. Opawa. Northumberland. Geo. W. Henry.	American. American. British British British British American. American. American. American. British British British American. British British American. British British British	Tons. 12,040 12,043 14,000 13,000 15,000 12,458	Kind of cargo. General. Sugar and general. General. General. General. General. General. General. General. Nutrate. General. General. General. General. General. General. General.
Atlantic to Pacific. Pacific to Atlantic. Pacific to Atlantic. Pacific to Atlantic. Atlantic to Pacific. Atlantic to Atlantic.	November 24, 1917. March 4, 1918. March 21, 1918. June 10, 1918. February 13, 1919. May 16, 1919. June 9, 1919. September 15, 1919. September 29, 1919. November 8, 1919. November 25, 1919.	Ulysses. West Wind. A. C. Bedford. Tiisondari Achilles. Altai Maru. Eclipse. Ulysses. Caddo. Achilles. Achilles.	American American American American American Japanese American American American American American	12,045 12,056 13,067 12,300 12,041 12,500 12,398 12,113 12,496 12,034 12,006	Coal. Flour and general. Gasoline. Naval supplies. Coal. General. Rice and sugar. Coal. Petroleum. Coal. Coal. General.

Repair Shop and Ship Chandlery Supply House.

Plans have been prepared for the construction on the mole at Cristobal, between the ends of Piers 8 and 9, of a building 250 feet long and 75 feet wide, to serve as a shop for light repairs on vessels docked

at Cristobal, and as a storehouse for ship's chandlery.

The section devoted to the shop will occupy 100 feet of the length of the building and will be one story in height. A traveling crane, which has a span of 36 feet, will traverse the length of the building and extended beyond one end sufficiently far to command a roadway on which trucks may bring materials for repairs. The shop will be equipped with lathes, steam hammer, forges, and other adjuncts for light repair work. This feature is an extension of the small shop now operated at the end of Pier 9.

The remainder of the building will be two stories in height. The ground floor will be used for storage of various items of supplies for ships and the second floor will be available for offices and storerooms for steamship lines which wish to rent spaces for storing their

own supplies.

The building will be constructed of reinforced concrete with poured walls. The walls will be constructed in slabs $5\frac{1}{2}$ inches thick, on the

ground, and raised into place. Columns will be poured afterwards between adjacent slabs completing the walls and affording sufficient strength to carry the roof structure. The estimated cost of the building is about \$70,000.

EXECUTIVE ORDER.

Amending Section 3 of the Executive Order of February 2, 1914, Providing Conditions of Employment for the Permanent Force for The Panama Canal.

By virtue of the authority vested in me by law, Section 3 of an Executive Order providing conditions of employment for the permanent force of the Panama Canal.

issued February 2, 1914, is hereby amended so as to read as follows:

"3. The compensation and conditions of employment of persons employed in the United States will be specified in the appointments. The compensation of such persons will begin upon date of embarkation at port of departure from the United States, and they will be granted free transportation from port of departure, including meals on the steamer, but no compensation or expenses for the journey to the port: but former employees from the United States whose services were terminated other than on account of reduction of force, and whose next preceding service with The Panama Canal was less than one year, shall be paid only from date of entry into the service on the Isthmus, and will be allowed only such reduced rates of transportation to the Isthmus as may be available for Government employees. Employees appointed at an hourly rate will be paid for the period of transit to the Isthmus on the basis of an 8-hour day exclusive of Sundays. Except in case of discharge or other separation from the service beyond the employee's control, payment of salary from date of embarkation to date of arrival on the Isthmus will not be made unless service on the Isthmus continues for 30 days."

This order shall take effect on and after this date.

WOODROW WILSON

THE WHITE HOUSE, 25 November, 1919.

[No. 3182.]

The above has been published as Canal circular No. 601-96.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted. persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286). Age limits do not apply to persons entitled to preference because of military or naval service.

Chief of police (male and female); \$1,800 a year; January 13, 1920; form 1312; age, 25 years and

Dietitian (male and female); \$960 a year; January 13, 1920; form 2118; age. 21 years and over.* Draftsman, architectural and structural steel (male and female); \$1,560 a year; January 6, 1920; form 1312; age, 18 years, but not 45 years.* Fire-prevention engineer (male and female); \$2,500 to \$4,000 a year; January 13, 1920; form

12; age, 25 years and over. Internist (male and female); \$2,500 to \$4,000 a year; January 20, 1920; form 2118; age, 21 years,

but not 35 years.*
Physician (male and female); \$150 a month; January 7, 1920; form 1312; age, 22 years, but not

31 years. Railway mail clerk (male and female); \$1,300 a year; January 17, 1920; form 304; age, 18 years. but not 35 years.

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

Addition to List of Notaries Public.

The following addition should be made to the list of notaries public in the Canal Zone, published in The Panama Canal Record of December 17, 1019:

Cristobal-Weaver, Henry D., Port Captain's office; commission expires May 11, 1922

Deceased Employees.

The estates of the following deceased employees of The Panama Canal are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Juan Tunon	178526	Panama	Panama	Cattle Industry	December 8, 1919.
Ince		Barbados	La Boca	Mechanical Division	December 15, 1919.

Official Circulars.

Issue of Commissary Books to Silver Employees.

THE PANAMA CANAL, EXECUTIVE OFFICE.

Balboa Heights, C. Z., December 22, 1919.

CIRCULAR No. 663-8:

The issue of \$2.50 commissary coupon books will be restricted so far as practicable. No \$2.50 commissary coupon book will be issued for payconfinissary coupon book will be issued for pay-roll deduction when the employee has sufficient credit on the roll to cover a \$5 book, unless a memorandum approved by the employee's fore-man, giving a good and sufficient reason for such issue, accompanies the time book in which the order for such book is placed.

JAY J. MORROW, Acting Governor.

Exportation of Panaman Silver Coins.

THE PANAMA CANAL, FXECUTIVE OFFICE.

BALBOA HEIGHTS, C. Z., December 23, 1919. To all concerned—Attention is called again to the fact that by Decree No. 17, of August 30, 1917, the President of the Republic of Panama prohibited the exportation of Panaman silver coins or bar silver made therefrom, excepting with the permission of the Secretary of Finance

with the permission of the Secretary of Finance and Treasury.

It is desired to cooperate with the Government of Panama, and failure to respect and obey this decree, on the part of employees of The Panama Canal or the Panama Railroad Company, will result in their discharge from the service.

A circular was issued on this subject on September 24, 1918, covering similar provisions which have been continuously in effect, and, in order that there may be no misunderstanding, it is pointed out that the provision of the circular issued under date of July 15, 1919, relating to the cancellation of all restrictions on the exportation of coin, bullion, and currency is limited to U. S. currency and has no bearing on the preceding. currency and has no bearing on the preceding.

JAY J. MORROW, Acting Governor.

Service Conditions for Conductors and Locomotive Engineers, Panama Railroad.

PANAMA RAILROAD COMPANY,

Office of Superintendent, Balboa Heights, C. Z., December 15, 1919. Conductors and engineers—The following conditions will apply to main line and inside service for conductors and locomotive engineers on the Panama Railroad, effective January 1, 1920:

MAIN LINE SERVICE

No. 1. Eight (8) hours or less shall constitute a day—time to start and end at midnight. No. 2. Thirty (30) minutes time will be allowed for preparatory time and will start thirty (30) minutes before listed leaving time as shown by

call book. Ten (10) minutes will be allowed engineers after arrival at ash pit, and ten (10) minutes from time of arrival at Colon, Mount Hope, Diablo cabin, and Panama to ash pit. Ten (10) minutes will be allowed conductors after arrival at Mount Hope and Diablo cabin.

No. 3. Conductors and engineers will be called and sign book not less than one (1) hour before

and sign book not tess that only the sisted leaving time.

No. 4. There will be two classes of service—assigned and chain gang. The oldest applicant for an assigned run will be assigned to same.

No. 5. Chain gang crews will run first in and

first out.

No. 6. Conductors and engineers called and relieved or train annulled will receive a minimum of one and one-half (13) hours and stand first out.

No. 7. A round trip between the terminals of

No. 7. A round trip between the terminals of Colon and Panama in assigned service will be considered as a day, but conductors and engineers on assigned runs can be used in an emergency, the first one in to be called.

No. 8. In using an assigned crew regular hours will be used, and will be stated in the bulletin asking for bids. Article No. 2 will be adhered to in making up the run so as to conform to the 8-hour law. 8-hour law

No. 9. Regular assigned main line work trains may be tied up one (1) hour for the noon meal, and one (1) hour's time deducted, but crew must be given the full hour off.

No. 10. Main line conductors and engineers will receive main line rate of pay and conditions. regardless of class of service performed.

INSIDE SERVICE,

(a) Eight (8) hours or less shall constitute a day, counted continuously from time first required for duty. No preparatory or tie-up time allowed, except that on inside work other than that performed inside the yard limits established at south end of Mount Hope yard, and at mile 44½, one (1) hour may be deducted for the noon meal, but in such cases the crew must be given the full hour off.

(b) Inside work is all work done on other than the main line and on the main line inside the above-mentioned limits, of whatever class.

Inside conductors and engineers required to go on main line for any cause will receive main line rate of pay for that day.

(d) Inside runs will be put up for bid and the oldest applicant will be given the run.

S. W. HEALD, Superintendent. Approved:

JAY J. MORROW, Acting Governor.

Annual Passes on Panama Railroad.

PANAMA RAILROAD COMPANY,

OFFICE OF SUPERINTENDENT, BALBOA HEIGHTS, C Z., December 26, 1919. To all concerned—Annual passes for the year ending December 31, 1919, will be honored thereafter until further notice.

S. W. HEALD, Superintendent.

Joint Commission.

Rules of Dismissal.

In the matter of the claim of Pablo Arosemena In the matter of the claim of Patio Arosemena for property located at the foot of Ancon Hill, rule of dismissal No. 439, docket No. 2515, December 26, 1919—With reference to the claim of Dr. Pablo Arosemena, docket No. 2515, a motion was filed by claimant on December 23, 1919, requesting that the Commission dismiss this claim for the reason that he has made settlement direct with the representatives of the United States Government.

In view of such settlement the above claim calls for no further action on the part of this Commission, and the said claim is therefore here-

by dismissed.

FEDERICO BOYD, GEORGE A. CONNOLLY, JULIO J. FABREGA, BURT NEW, Commissioners.

In the matter of the claims of Tracy Robinson, docket No. 1624; Mrs. Simeon A. Clark, docket No. 2690: John Uriah Simpson, docket No. 2691: T. B. Lawrence, docket No. 2692: Estate of A. James, deceased, A. Sange and J. H. Stilson, administrators, docket No. 2002, Mrs. Marion W. Clark, docket No. 2004: J. H. Stilson and M. A. de Leon, co-partners, docket No. 2905: J. H. Stilson, docket No. 2906: A. James and J. H. Stilson, docket No. 2906: A. James and J. H. Stilson, docket No. 2907: W. F. Rathbun and J. H. Stilson, docket No. 2908: F. S. Higbid and Clarence Alberga, docket No. 3490: rule of dismissal No. 440, December 23, 1919—On the 11th day of August, 1913, Tracy Robinson filed his claim, docket No. 1624, in the office of the Joint Commission; on the 17th day of November, 1914; John Uriah Simpson filed his claim, docket No. 2690; on the 17th day of November, 1914, Tohn Uriah Simpson filed his claim, docket No. 2691; on the 17th day of November, 1914, Tohn Uriah Simpson filed his claim, docket No. 2691; on the 17th day of November, 1914, Tohn Uriah Simpson filed his claim, docket No. 2692; on the 11th day of December, 1914, H. Stilson and A. Sange, administrators; on the 11th day of December, 1914, Mrs. Marion W. Clark filed her claim, docket No. 2902; on the 11th day of December, 1914, J. H. Stilson filed their claim, docket No. 2906; on the 11th day of December, 1914, J. H. Stilson filed their claim, docket No. 2907; on the 11th day of December, 1914, J. H. Stilson filed their claim, docket No. 2907; on the 11th day of December, 1914, W. F. Rathbun and J. H. Stilson filed their claim, docket No. 2908; on the 28th day of December, 1914, F. S. Higbid and Clarence Alberga filed their claim, docket No. 3490.

All these claims are for damages alleged to have been sustained by the respective claimants in making and installing certain improvements upon

All these claims are for damages alleged to have been sustained by the respective claimants in

been sustained by the respective claimants in making and installing certain improvements upon lots of land in the City of Colon in accordance with the requirements of the United States health authorities in charge of the sanitation of that city. Answers were filed in all of these 11 cases by counsel for the Government of the United States. Among other things a plea was interposed challenging the jurisdiction of the Joint Commission, under the treaty to pass upon claims for damayers. under the treaty, to pass upon claims for damages arising out of the administrative acts of the United States sanitary officials in the performance of their duty in the City of Colon.

By the unanimous order of the Joint Commission these cases were set down for hearing on

mission these cases were set down for hearing on the 22d day of December, 1919, and the Commission devoted all that day to argument by counsel for both sides on the question: "Has the Joint Commission jurisdiction of these cases?"

We are of the opinion that all of these 11 cases come squarely within the purview of the decision of the Joint Commission rendered on the 28th day of February, 1918, in the matter of the claim of Carlos Delgado, claim docket No. 749, which decision reads as follows:
"On February 2, 1911, a certain house situated at Marañon, in the Guachapali District, within the limits of the City of Panama, and claimed by

Carlos Delgado, the claimant above named, to be Carrol Delgado, the claimant above named, to be his property, was destroyed by the officers of the Sanitary Department of the Canal Zone. The case was called to the attention of the Commission by Felix E. Porter, Esquire, attorney for the claimant, on February 1, 1918, and set down for argument on February 4, 1918. On the latter date, and on February 6, 1918, the Commission date, and on February 6, 1918, the Commission heard extensive argument from counsel, both for the claimant and for the United States, which argument was, by order of the Commission, limited to the single question: "Has the Commission jurisdiction of the claim?"

The argument of counsel and the records of the Commission displayed the following facts:

Commission disclose the following facts:

Commission disclose the following tacts:

The house in question was within the City of Panama and was destroyed by the Sanitary officers on February 2, 1911; the claim was filed with the Secretary of this Commission by Carlos Delgado on May 9, 1913; on April 21, 1915, the attorneys for the United States filed their plea to the jurisdiction of this Commission, in which they challenged the Commission's jurisdiction to hear and determine the claim on two grounds: to hear and determine the claim on two grounds:

to hear and determine the claim on two grounds: First—Because the allegations of the claim submitted to this Commission show that the house in question was destroyed by the Sanitary Department of the Isthmian Canal Commission, acting under the sanitary ordinances prescribed by the United States for the cities of Panama and Colon, in conformity with Article VII of the Canal Treaty, and the agents of the United States, acting within their governmental functions, removed the house in question, because it was a nuisance and a menace to public health and was an unlawful structure, all of which was done in conformity with the said ordinances so prescribed for the cities of Panama and Colon.

conformity with the said ordinances so prescribed for the cities of Panama and Colon.

Second—'Because the alleged rights asserted by claimant arise under Article VII of the Canal Treaty and do not come within any of the provisions of said Treaty, which confer jurisdiction upon this Commission.'

No decision has ever been given or made by the Commission on the plea to its jurisdiction so interposed by the attorneys for the United States. On June 19, 1915, in pursuance of a practice which the Commission has frequently sanctioned, the Commission met for the purpose of hearing and perpetuating the testimony of one of the claimant's witnesses who was about to leave the Isthmus, so that his evidence might be available at the trial of the case. On this occasion, counsel for the United States insisted that the Commission should which the averaging at his jurisdiction. should decide the question as to its jurisdiction, before proceeding to take the witness's testimony. But the Chairman announced that the Commission was not prepared to pass upon the matter of juris-diction and would reserve its decision on that point until after the hearing of the case on the merits.

The case came on regularly for trial on September 7, 1915, and trial and argument consumed all of September 7, 9, and 10, 1915. The case was submitted to the Commission for decision on September 10, 1915, and it has never been decided. It would appear that the members of the Commission had grave doubts of their jurisdiction. We are informed that both the Panaman and American members of the Commission expressed the intention of communicating with their respective Governments, and that the case became the subject of some diplomatic negotiations. Meanwhile the personnel of the Commission has changed, and three of its present members, Judge Alfaro, Judge New, and Judge Connolly-knew nothing of the case until the Commission's attention was called to it, as above set forth, on February 1, 1918, by Mr. Porter, counsel for the claimant. With the contention of claimant's counsel that he is entitled to a prompt and final decision, one way or the other, the Commission is in entire accord. September 10, 1915, and it has never been decided.

In addition to the pleadings and briefs which are found among the records, a careful examina-tion has been made of the transcript containing the evidence adduced at the trial of the case and

After a careful and conscientious consideration of the points involved, this Commission is of the

unanimous opinion that it has no jurisdiction of the case at bar. The Commission is of the unanimous opinion that it is not necessary to pass upon all of the legal points raised by counsel in their briefs and arguments, and that for the purpose of deciding the sole question of jurisdiction in the case at bar, the statement of the following principles, which are hereby unanimously agreed to, is amply sufficient:

to, is amply sumcient:

1. Under the terms of the Treaty between the Republic of Panama and the United States, dated November 18, 1903, there are two methods, and only two, by which the United States may acquire property in the cities of Panama or Colon, namely: First, by purchase, or secondly, by the exercise of the right of eminent domain, that is to say, by condemnation proceedings before the courts of Panama.

Panama.

2. Every sovereign government has the undoubted right, as part of its general police power, to abate and destroy, without compensation or liability for compensation, any building or other structure which it finds to be a public nuisance and a menace to the public health.

3. The sanitary authorities of the United States acting under the Treaty between the Republic of Panama and the United States, dated Novemof Panama and the United States, dated November 18, 1903, and under numerous laws and decrees enacted by the Republic of Panama in pursuance of that Treaty, have the right and power of sovereignty so far as sanitary matters within the cities of Panama and Colon are concerned, and may, without compensation or liability for compensation, abate and destroy any building or other structure which is a public pulsance and a menace to the public health. nuisance and a menace to the public health.

4. This Commission has no jurisdiction to pass upon the administrative acts of the employees, or officials of the United States, whether in the Canal Zone, or in the cities of Panama or Colon. The Commission further believes in this con-

nection that claims for damages arising out of alleged arbitrary or unjustified acts of the sautary authorities of the United States Government on duty in the cities of Panama and Colon may only be made the subject of diplomatic negotiations.

For the reasons above set forth the Commission has decided that it has no jurisdiction of the claim presented by Carlos Delgado and it is, herefore, ordered that said claim be, and the same is hereby dismissed."

Upon the authority of the above-quoted decision in the Delgado case all of the above-mentioned 11 cases are beyond the jurisdiction of this Commission, and the same are therefore hereby

FEDERICO BOYD, GEORGE A. CONNOLLY, BURT NEW, Commissioners.

I dissent from the above finding. JULIO J. FABREGA, Commissioner.

Award.

In the matter of the claim of Thomas Baynes, for a portion of the property known as "Ensenada de las Minas," award No. 212, docket No. 3597, December 22, 1919—An award is hereby made against the United States of America in favor of Thomas Baynes in the sum of \$300 United States currency, for all the right, title, and interest that the said Thomas Baynes may possessor may have possessed in and to a portion of the property known as "Ensenada de las Minas" situated in the Republic of Panama, subject of claim docket No. 3597, including all improvements located thereon and any and all damages sustained on account of the expropriation of this property by the United States of America.

This award shall be paid on or before the 22d

This award shall be paid on or before the 22d day of January, 1920, and if payment or tender of payment is not made on or before that date, said award shall thereafter bear interest at the rate of six per centum per annum until paid.

FEDERICO BOYD, BURT NEW, JULIO J. FABREGA. GEORGE A. CONNOLLY, Commissioners.

Misdirected Letters.

BALBOA HEIGHTS, C. Z., December 29, 1919. The following insufficiently addressed letters have been received in the office of the Director of Posts and may be obtained upon request of the addressees. Requests may be made by telephone, calling No. 182, Balboa:

Anderson, Mrs. Jas. W. Berry, Mrs. Frances M. Boggs, Roy G. Brackman, Louis D. Brown, Mrs. U. S. Cursea, Clementina Declementie, Walter DeGraw, Edwin B.
Dorsey, James
Dorton, H. T., Box 101
Figueroa, Mrs. Rosa Flanagan, J. J.
George, Edward M.
Hanzlick, James
Hepburn, Miss Inez,
Box 52

Hinkey, Hazel, Box 541 Hogan, E. L. Hyde, Mrs. Geo. L. Kennedy, W. J.

Levy, E. Lux, F. L. Miles, Herman Miles, Herman Molino, Miss Magda-lena, Box 292 Monroe, Mrs. Richard Newcomb, H. G. Nickolas, Dewitt Payne, Mrs. M. Phillips, Earl Schneeldth Edward Schneekloth, Edward

Schneekloth, Edward Shaffer, Miss L. Smith, Miss Frances E. B. Tilton, Charles H. Vestoh, Richard Weaver, Lucas Edward West, John Stanley, Sr. Wills, Mrs. William, Roy 475 Box 475

Transport Schedule.

The following is the tentative sailing schedule for the turn around of the U. S. A. T. Santa Leonora between New Orleans, La., Cristobal, C. Z., San Juan, P. R., and return to New Orleans:

Leave.	Date.	Arrive.	Date.
	January 15 January 24		January 2 January 8 January 19 January 27

*To sail from San Juan, P. R., Saturday evening, January 3, 1920.

The following is the tentative sailing schedule for the turn around of the U. S. A. T. Princess Matoika between New York, Cristobal, C. Z., San Juan, P. R., and then around to New York:

Leave.	Date.	Arrive.	Date.
Cristobal	December 30 January 3* January 15	Cristobal San Juan New York Cristobal San Juan	January 2 January 8 January 21
San Juan		New York	

*To sail from San Juan, P. R., Saturday evening, January 3, 1920.

Shipping Commissioner's Sale.

BALBOA HEIGHTS, C. Z., December 29, 1919.

The Shipping Commissioner, Room 305, Administration Building, Balboa Heights, C. Z., will accept bids up to noon, January 20, 1920, for the purchase of portions of the personal effects belonging to the estate of G. V. Doval, deceased American seaman. The property to be offered for sale consists of 2 suitcases, an assortment of wearing apparel, toilet articles, and misment of wearing apparel, toilet articles, and miscellaneous personal effects, a complete list of which will be found at each clubhouse, each Zone post office, and at the offices of the Deputy Shipping Commissioners at Balboa and Cristobal. Bids may be made for the entire lot of the effects of the decedent, or be limited to individual articles. Prospective bidders, desiring to examine articles. Prospective bidders, desiring to examine the effects, should apply to the Commissioner's office on any business day. Bids should be in writing and submitted in sealed envelopes addressed to the Shipping Commissioner, Balboa Heights, C. Z. The cover should be marked "Bid on effects of (Insert name of seaman) deceased." The Shipping Commissioner reserves the right to reject any or all bids.

C. H. CALHOUN, Shipping Commissioner.

THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

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at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., January 7, 1920.

No. 21.

Record for a Month Broken in December.

More ships passed through the Canal during the month of December, 1919, than in any preceding month and new records were established for net tonnage, tolls, and cargo. A total of 281 ocean-going ships made the transit, with an aggregate net tonnage of 957,109 plus 12,875 displacement tons, and a total cargo of 953,901 tons. The commercial ships numbered 261, of 916,956 net tons, with 931,203 tons of cargo, and the United States Government ships numbered 20, of 40,153 net and 12,875 displacement tons, carrying 22,698 tons of coal and supplies. The total tolls collected amounted to \$891,375.70, of which \$448,541.58 was on traffic bound from Atlantic to Pacific and \$442,-834.12 on that from Pacific to Atlantic.

The month of greatest commercial traffic previous to this was May, 1918, with 200 ships of 664,827 net tons, carrying 775,357 tons of cargo, and the month of the greatest number of ships, commercial and Government combined, prior to December, was July, 1919, with 234 ships. Further comparisons are afforded by the tabulated

statements in this issue.

First German Vessels through the Canal.

The first ocean-going German vessels to pass through the Canal under the German flag were the tugs *Einigkeit* and *Schelde*, which made the transit from Atlantic to Pacific on January 2, on their way from Hamburg to Valparaiso. They were manned by German crews but traveling under orders of the British Admiralty, and are to tow disabled ex-German vessels from Valparaiso to Liverpool for overhauling.

Prior to the passage of these tugs the only vessel to have passed through the Canal under the German flag was the launch *Germania*, of 5 tons, net, which made the transit from Cristobal, where 4 ships of the Hamburg-American Line were interned, to Balboa, on February 19, 1915.

The "Gorredijk" Brings Crew of Burned Steamship "Firwood."

The steamship Gorredijk, of the Holland-American Line, arrived at Balboa in the evening of December 26, bringing the master and 27 members of the crew of the wooden steamship Firwood, which was burned at sea on December 18. This occurred in latitude 16° 18' S., and longitude 73° 39' W., off the coast of lower Peru. Fire broke out at 8 o'clock in the morning, due to the bursting of an oil pipe under pressure of 120 pounds to the square inch, close to the boilers. Within fifteen minutes, while the flames were shooting fifty feet in the air, the crew had left the ship in two lifeboats, being unable to get the others overboard on account of the fire. The men were picked up at sea 26 hours after leaving the vessel, and in latitude 16° 55' S. and longitude 73° 21' W. Several of the men were severely burned and were sent to Ancon Hospital after being taken off at Balboa.

MOVEMENTS OF OCEAN VESSELS.

Week ending at Midnight, January 3, 1920.

THROUGH THE CANAL -ATLANTIC TO PACIFIC.

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THE PANAMA CANAL RECORD	
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		60.	(*)
	For.	New York. Galveston. N. O. via Porto Rio N. Y. via Porto Rio Norfolk. Bluefields.	te 287, column 2
*OEPARTURES.	Line.	Lake Hurst	(Confinued on page 287, column 2,)
	Vessels.	Lake Hurst. Novian. Santa Leonora (h) Princess Matoika Ulyssea. Silver Brook.	
	Date.	Dec. 29. Dec. 30. Dec. 30. Dec. 31.	
	From.	Norfolk. New Orleans. Amsterdam and wayports. Port Limon. New York and Kingston. Bluefields.	
*ARRIVALS.	Line.	Panama Railroad Steamship Line. Norfolk. United Fruit Co. New Orleans, Dec. 29. Royal Dutch West Linda Mail Co. Ransterdam and wayports, Dec. 30. Hall Brothers Steamship Co. Port Linnon. Dec. 30. Furied Fruit Co. New York and Kingston. Dec. 31. United Fruit Co. New York and Kingston. Dec. 31.	
	Vessels.	Ulyssee. Cartago. Stayvesant. Trident. Afanas.	
	Date.	Dec. 28 Dec. 30 Dec. 31 Dec. 31	

(h) U.S. Army transport.

Record Traffic in 1919.

Traffic through the Canal during the calendar year 1919 exceeded

that in any previous year.

The total number of ocean-going vessels making the transit in 1919 was 2,394, as compared with 2,233 in 1918; 2,081 in 1917; 1,278 in 1916; 1,171 in 1915; and 357 for the $4\frac{1}{2}$ months from August 15, 1914, the date of the opening of the Canal, to the end of the year 1914. The grand total to January 1, 1920, was 9,514 vessels.

The foregoing figures include ships in commercial service and vessels of the United States Government, exclusive of those in the service of The Panama Canal. The Government ships were practically all vessels of the Navy and Army, with a few belonging to other departments of the Government, such as the Coast Survey and the Bureau of Fisheries. Shipping Board ships pay tolls and are otherwise handled as commercial ships. "Commercial" ships, in the sense of this classification, include merchantmen in commercial service and the transports or naval vessels of other nations, as well as yachts—everything, in short, contributing to the traffic of the Canal other than United States Government ships. The proportions of commercial and noncommercial traffic are shown in this table:

	Co	MMERCIAL V	ESSELS.		GOVERNM	ENT VESSEL	s.	Total.				
YEAR	Ves- sels.	P. C. net tonnage.	Tons cargo.	Ves- sels.	P. C. net tonnage.		Tons cargo.	Ves- sels.	P. C. net tonnage.	Displace- ment.	Tons cargo.	
1916.	1,149 1,222 1,960 2,072	3,873,512 3,834,112 6,223,833 6,415,522	1,745,334 4,894,134 4,838,496 7,427,680 7,294,502 7,468,167	22 56 121	74,968 94,902 138,554 69,082	73,104 54,770 240,930 131,256	93,415 130,032	1,171 1,278	6,484,604	73,104 54,770 240,930 131,256		
Total	8,888	28,547,247	33,668,313	626	607,993	1,326,998	579,062	9,514	29,155,240	1,326,998	34,247,375	

*Four and one-half months.

The vessels in Government service have amounted to 7 per cent of the commercial ships, or 6.6 per cent of the total number of vessels. Their net tonnage, plus one-third of the displacement of those not measured for net tonnage, which is considered to give a fair equivalent in terms of net tonnage, has amounted to slightly less than 4 per cent of the aggregate net tonnage. The cargo carried on them, principally coal, ordnance, and other supplies for the Navy, has amounted to about 1.7 per cent of the total cargo.

The traffic of commercial vessels in each direction by months, with their aggregate net tonnage and cargo, from the opening of the Canal to January 1, 1920, is shown in table published on pages 279 and 280. The movement of Government vessels in each direction, with their aggregate net tonnage and aggregate displacement of the vessels not measured for net tonnage, is presented in the table on pages 280 and 281.

The traffic of Government vessels was rather evenly distributed in the first three years, 1914, 1915, and 1916, with approximately equal traffic in both directions. In 1917 and 1918, during which the United States was engaged in the war, there was a heavy preponderance of movement from the Pacific to the Atlantic, in the two years, exactly twice as many Government ships, mostly vessels of the Navy, went from Pacific to Atlantic as in the counter direction. In 1919, however, with the release of ships from naval operations in the Atlantic the tide set back, and four and a half times as many Government ships went from Atlantic to Pacific as in the opposite direction. During the

entire time of Canal operation, a fourth more ships in Government service have passed from Atlantic to Pacific through the Canal than from Pacific to Atlantic.

In commercial traffic there was a similar evenness during the first three years, and a similar preponderance of traffic from Pacific to Atlantic during the years 1917 and 1918, but in 1919 the heavier movement continued to come from the Pacific, though in less excess than in 1918. Some of the causes for the heavier movement from Pacific to Atlantic have been the building of ships on the Pacific Coast of North America for Atlantic traffic during the war, heavy shipments of nitrates during the war in tramp steamers sent from other Pacific ports to the nitrate ports for cargo but not sent back to the Pacific after delivering the nitrate at Atlantic ports of the United States or Europe, and the practice of several lines of making their outward voyages by other routes and their homeward voyages by the Canal.

The average net tonnage of the 8,888 commercial ships passing through the Canal to January 1, 1920, was 3,212 tons, Panama Canal measurement. The average cargo per ship, including the ships in ballast, was 3,788 tons. The average net tonnage was greater in 1919 than in the three years immediately preceding, but was less than in 1914 and 1915. The average cargo in 1919 was 3,500 tons, which was less than the average in any preceding year. The following statement shows the average tonnages and cargoes of the commercial ships in each direction by years:

	ATLA	NTIC TO PAC	CIFIC.	Paci	FIC TO ATLA	NTIC.	Total.			
YEAR.	Vessels.	Average Average cargo.		Vessels.	Average net tonnage	Average cargo.	Vessels.	Average net tonnage	Average cargo.	
1914 1915. 1916. 1917. 1918.	177 572 611 922 850 969	3,577 3,418 3,187 3,101 2,920 3,449	4,159 3,620 3,353 3,334 2,610 3,577	174 577 611 1,038 1,222 1,165	3,734 3,325 3,088 3,239 3,219 3,079	5,743 4,893 4,566 4,194 4,154 3,436	351 1,149 1,222 1,960 2,072 2,134	3,650 3,371 3,138 3,175 3,096 3,247	4,972 4,260 3,959 3,790 3,521 3,500	
Total	4,101	3,222	3,319	4,787	3,204	4,187	8,888	3,212	3,788	

SUMMARY OF TRAFFIC THROUGH THE CANAL.

The traffic through the Canal, exclusive of Government vessels and launches, from its opening to January 1, 1920, by ships, P. C. net tonnage, and tons of cargo handled each way each month, is summarized in the following table:

	Ат	LANTIC TO P	ACIFIC.	PA	сігіс то Ат	LANTIC.	TOTAL.			
DATE.	Ves- sels.	P.C. net tonnage.	Tons cargo.	Ves- sels.	P.C. net tonnage.	Tons cargo.	Ves- sels.	P. C. net tonnage.	Tons cargo.	
August. September October November. December.		41,931 109,684 174,472 163,054 143,945	49,106 141,762 168,069 199,910 177,235	29 39	44,027 107,843 147,639 149,906 198,618	253,288 242,291	56 83 89	85,958 217,527 322,111 312,960 342,563		
Total, 1914 1915. January. February March April. May June. July August September October November December	56 59 67 82 89 87 49	633,086 155,957 147,339 181,222 199,213 240,098 294,906 290,579 278,475 166,751	306,773 230,770 181,380	53 53 79 60 71 60 76 68 51	174,452 175,523 286,685 305,326 229,211 201,116 244,653 213,725 178,619	240,925 276,078 416,110 285,457 328,374 282,561 380,196 325,688 274,937	95 92 135 119 138 142 165 155	330,409 322,862 467,907 404,539 469,309 496,022	427,960 427,065 627,557 522,841 574,908 600,480 686,969 556,458 458,317	
Total, 1915	572	1,955,245	2,070,900	577	1,918,267	2,823,234	1,149	3,873,512	4,894,134	

	Ат	PLANTIC TO P	ACIFIC.	Pa	CIFIC TO AT	LANTIC.		TOTAL.			
Date.	Ves-	P. C. net tonnage	Tons cargo.	Ves- sels.	P. C. net tonnage.	Tons cargo.	Ves- sels.	P. C. net tonnage.	Tons cargo.		
1916.											
January	4	694	1,100	2	600	550	2	600 694	550 1,100		
March	2	203		2	125		4	328			
April	29 66	98,642	142,133	46 60	135,238 174,778	224,620 245,861	75 126	233,880 385,062	366,753 483,125		
MayJune	68	210,284 225,319	237,264 273,966	53	156,937	224,554	121	382,256	498,520		
July	74	260,520	296,094	71	221,605	345,863	145	482,125 453,293	641,957		
August	74 68	249,953 213,052	231,788 214,661	63 83	203,340 290,580	270,566 437,509	137 151	453,293 503,632	502,354 652,170		
October	74	210,368	211,164	84	272,164	416,877	158	482,532	628,041		
November	72	220.806	198,718	75 72	215,456 215,884	320,325 302,896	147 152	436,262 473,448	519,043 544,883		
December	80	257,564	241,987		410,004	302,890	132	470,445	011,000		
Total,1916 1917.	611	1,947,405	2,048,875	611	1,886,707	2,789,621	1,222	3,834:112	4,838,490		
January	74	240,100	216,713	96 71	299,514	422,100	170	539,614	638,813 540,000		
February	64 81	211,920 258,765	226,538 315,840	65	251,085 200,077	313,462 245,660	135 146	463,014 458,842	561,500		
April	76	262,221	322,656	73	265,303	304,649	149	527,524	627,305		
May	57 85	106,025 274,137	173,240 311,190	89 85	302,682 254,457	423,101 319,448	146 170	468,797 528,614	596,341 630,638		
June	96	274,718	284,151	85	989 709	380,773	181	557,510	664,924		
August	79	243,275	228,732	89	268,908	350,608	168	512,183 575,778	579,340		
September	78 85	212,400 273 888	222,564 274,766	110 86	363,378 248,824	501,638 327,526	188 171	522,712	724,202 602,292		
November	83	262,858	302,791	101	323,661	396,115	184	586,519	698,906		
December	64	181,265	194,624	88	301,551	368,795	152	482,816	563,419		
Total, 1917 1918.	922	2,861,601	3,073,805	1,038	3,362,232	4,353,875	1,960	6,223,833	7,427,680		
January	72	225,427	212,596	81	269,698			495,125	553,508		
February	63 66	187,506 192,279	134,291 171,121	92 110	300,980 390,970		155 176	488,486 583,249	473,379 661,275		
April	81	242,358 225,730	219,362	94	307,153	407,996 564,795	175	549,511	627,358		
May	77 70	225,730 222,257	210,562 182,927	123	439,097 341,969	564,795 428,910	200 165	664,827 564,226	775,357 611,837		
June, July	64	164,762	145,141	95 106	332,727	439,857	170	497,489	584,998		
August	62	168,764	132,448	96	283,242	401,257	158	452,006	533,705		
September	89 75	260,444 203,535	196,472	90 115	262,897 349,190	363,717 485,382	179 190	523,341 552,725	560,189 657 588		
November	69	' 199,171	222,336	113	320,362	405,391	182	510,533	657,588 627,727 627,589		
December	62	198,839	219 365	107	335,165	408,218	169	534,004	627,583		
Total, 1918 1919.	844	2,482.072	2,218,827	1,222	3,933,450	5,075,675	2,072	6,415,522	7,294,502		
Jauuary	78	242,629	222,289	94	266,858	317,530	172	509,487	539,828		
February	79 78	286,462 252,815	322,381 256,708	76 75	218,503 $222,130$	241,755 244,977	155 153	504,965 474,945	564,136 501,685		
April	68	234,515	268,556	96	240,984	231,861	164	475,499	500,417		
May	76	269,280 202,793	354,372	101	297,643 317.213	287,799 354,800	177 159	566,923	642,171 583,396		
June	61 67	202,193	228,596 237,100	98 92	287,333	332,876		520,006 510,823	569.976		
August	88	314,512	362,313	100	271,599	353,411	188	586,111	715,724		
September	72 73	265,725 281,903	317,358 268,131	98 123	320,461 388,197	320,912 437,750	170 196	586,186 670,100	638,270 705,881		
October	88	274 251	215,554	92	322,897	359,926	180	597,148	575,480		
December	141	485,620	412,432	120	433,336	518,771	261	916,956	931,203		
Total, 1919	969	3,331,:95	3,465,790	1,165	3,587,154	4,002,377	2,134	6,919,149	7,468,167		
Total to Jan. 1, 1920.	4,101	13,211,464	13,614,279	4,787	15,335,843	20,054,034	8,888	28,547,247	33,668,313		

Government vessels, other than Panama Canal, passing through the Canal from its opening to January 1, 1920.

	ATLANTI	C TO PACE	FIC.	PACIFIC TO ATLANTIC.				TOTAL.			
							Tons cargo.				Tons cargo.
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			2,000					1			
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				1	3,532			3	16,803		21,047
1	6,346		6,000	1	1,731		1,500	· · · · · · · · · · · · · · · · · · ·	8,077		7,500
	sels. 3 1 4 2	Ves-P. C. net sels. 3 9,771 1 1,731 4 11,502 2 13,271	Ves- P. C. net Displace- sels. tonnage. ment. 3 9,77; 1 1,731 4 11,502 2 13,271 1 6,346	sels. tonnage. ment. cargo. 3 9,771 6,600 1 1,731 2,000 4 11,502 8,600 2 13,271 21,047 1 6,346 6,000	Ves-sels. P. C. net bisplacement. Tons cargo. Vessels. 1 6,600 1 1 1,731 2,000 4 11,502 8,600 2 2 13,271 21,047 1 1 6,346 6,000 1	Ves- sels. P. C. net Displace- ment. Tons cargo. Ves- sels. P. C. net tonnage. 1 3,532 3 9,771 6,600 1 6,600 1 1,731 2,000 4 11,502 8,600 2 9,637 2 13,271 21,047 1 3,532 1 6,346 6,000 1 1,731	Ves-gels. P. C. net gels. Displace ment. Tons cargo. Ves-gels. P. C. net tonnage. Displacement. 1 3,532 1 6,105 6,105 1 1,731 2,000 1 2,637 2 13,271 21,047 1 3,532 1 6,346 6,000 1 1,731	Ves-gels. P. C. net Displacesels. Tons cargo. Ves-gels. P. C. net Displacement. Tons cargo. 1 3,532 (1) (6,105 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Ves-gels. P. C. net Displace-ment. Tons cargo. Ves-gels. P. C. net Displace-ment. Tons cargo. Ves-gels. 1 3,532 1 1 1 6,600 1 6,105 1 1 1 1,731 2,000 1	Ves- sels. P. C. net Displace- sels. Tons cargo. Ves- sels. P. C. net Displace- ment. Tons cargo. Ves- sels. P. C. net Displace- ment. Tons cargo. Ves- sels. Indicated to tonnage.	Ves-gels. tonnage. Displace-ment. Tons cargo. Ves-gels. tonnage. P. C. net ponnage. Displace-ment. Tons cargo. Ves-p. C. net ponnage. Displace-ment. Tons cargo. Ves-p. C. net ponnage. Displace-ment. 1 3,532 1 3,532 1 6,105 1 6,105 3 9,771 6,600 1 1,731 2,900 1 1,731 .

		ATLANTIC TO PACIFIC.				Pacifie	TO ATLAN	TIC.		Т	OTAL.	
DATE.	Ves- sels.		Displace- ment.	Tons eargo.	Ves- sels.	P. C. net tonnage.	Displace- ment.	Tons cargo.		P. C. net tonnage.		Tons cargo.
May					4	22,814		3,800	4	22,814		3,800
June July August	1	2,172 6,749 9,719	36,552	10,000	 1 4	5 399		8,500 530	1 5	2,172	36,552	2,700 18,500
August	2	9,719		18,349	4	3.042	36.552	530	6	12,761	36,552	18,879
September												
October												
November	1	204								204		
Cocciniber												
Total, 1915	11	38,416	36,552	58,096	- 11	36,507	36,552	14,330	22	74,968	73,104	72,420
1916.	5	190	1 505		4		1 505		9	190	3,010	
January February					4	394	1,505 4,365			394	5,150	
March					4	14,076	15,285 9,700	7,000	4	14.706	16,070	7,000
April	$\frac{3}{2}$	3,736	785	2,000 11,025	2 3	408	15,285		5	3,736 5,777	16,070	2,000
May June	2	11.039		18,805	1	6,522	9,700	466	3	17,561	9,700	10 971
July	3	510			2	6,832		7,000	5	7,342		7,000
July August	6	510 7,685	10,420	14,361 10,000	2	9,878	10,420	106	8	17,563	10,420	14,407
September	1 3	6,346 11,242		10,000	4		10,420		5	6,346 11,242	10,420	10,000 19,852
October November				10,002	1	204			1	204		
December	2	3,722			1	6,749		2,800	3	10,471		2,800
m-4-1 1010	28	49,839	13,495	76,043	28	45,063	41,275	17,273	 56	04 002	54,770	93,415
Total, 1916 1917.	20		10,400			40,000	41,270	17,210	90	34,802	04,770	1
January	3	18,217 14,319 691		29,426 17,769	2	3,722		3,154	5	21,939		32,580 17,769 10,319
February	8	14,319	10,853	17,769	1	406 7,037	0 100	10,239	5	14,725 7,728	00 010	17,769
March		15,221	5,129		11 6	9,647	9,166 13,766	10,239	19 15	24,868	20,019 18,895	400
May	7	11,968	8,443	20,762	17	8,917	94,162		24	20,885	102,605	20,762
April	9 7 2 2	2,698	408	4,004	5	8,507	9,435	7,452	7	11,205	9.843	11,456
July August	1 1	4,868 190	408	8,319	10	9,946 3,387	16,494 9,530	3,869 4,085	12 5	14,814 3,577	16,902 9,530	12,188
September	1 2	190	279		ī	6,763			3	6,953	279	
Ootober	1		3,225	8,233	1 3	13	9,225 12,567		4	13	12.450	
November	3 3	4,828 6,453	420 14,080		6		12,567 23,340		9	5,394 6,453		8,233
December		0,400	14,000		10		23,340		13	0,400	37,420	
Total, 1917	45	79,643	43,245	88,593	76	58,911	197,685	41,439	121	138,554	240,930	130,032
1918. January	2	190	420		10	9,306	16 885		12	9,496	17,305	
February	1				4	6,435	4,305		4	6,435	4,305	1
March	2				16	10,452	6,664		18	10,836	6.664	
April May	1 2		3,140		15		1,025		16	4,326 2,901	12,289	
June	5		16,069		4	2,001	5.156		9		21,216	
July	1		279		30		19,525	12,680	31	11,265	19,804	12.680
August	5 3				4				9		4 015	
September October	2	204	1,265 65		6		3,650 2,385	1,100	9	1.935	4,915 2,450	1.100
November	6	9,705	584	9,300		4,624	2,385 2,370		9	14,329	2,450 2,954	9,300 15,008
December	20	5,557	21,226	15,008	11	\	10,419		31	5,557	31,645	15,008
Total, 1918	49	18,042	45,738	26,228	112	51,040	82,518	13,780	161	69,082	131,256	40,008
1919			1									1
January	15	15,281	38,400	21,440	6		23,050	4 000	21	15,281	61,450	21,440
February March	30		2,384	3,735 14,359	3 5	7,000	1,185 13,709	4,096	35		1,200 16,093	7,831 14,359
April	6	204	9,110	4,112	2		1,185	2,400	8	3,347	10,295	6,512
April May	5	180	2,625		2		1.425		7	180	4.050	
June			11,112 429,299	3,491 27,989	13		2,339 80,28t	4,000	75	2,907 20,983	13,451 509,585	
August	31	27,605	105,038	39,922	3	2,172	3,265	4,000		29,777	108,303	39.922
September	1 12	16 243	24 773	22,295	1	180	6.		13	16,423	24.773	22.295
October	16	32,507	29,073	34,793	1		65		17	32,507	29,138 35,728	34,793
November December	13	$\frac{27,304}{20,956}$	16,345 12,875		4				17	40,153	35,728 12.878	29,251 $22,698$
	-	-				ļ	-	-	-			-
Total, 1919	213	174,283	681,040	223,249	47	35,065	145,889	11,332	260	209,348	\$26,938	234,581
Total to Jan-			0.05					(
1. 1920	350	371,770	823,079	480,809	276	236,223	503,919	98,253	626	607,993	1,326,99	579,062

Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending January 3, 1920.

			1	Carg	;o
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Aysen Zacapa Jamaica Santa Marta Middlebury Haiti Gen. W. C. Gorgas	Panama Railroad Steamship Line. Leyland Line. United States Army. United States Army. United States Army. Standard Cil Co. Panama Railroad Steamship Line. Panama Railroad Steamship Line. Italian Steamship Line. Pacific Metals Corporation United Fruit Co. Peruvian Steamship Line. Royal Dutch West India Mail. United Fruit Co. Royal Mail Steam Packet Co. Chilean Steamship Line. United Fruit Company. Pacific Steam Navigation Co. United Fruit Company. Pacific Steam Navigation Co. United Fruit Company. Panama Railroad Cattle Industry.	December 28. December 28. December 29. December 30. December 31. December 31. December 31. January 1. January 1. January 2. January 3. January 3. January 3.	December 29. December 30. December 30. December 31. December 31. December 31. January 1.	12,206½ (†) 68 1,155 3,296 141 722 11 2,175 676 331 450 152½ 3,015	Tons. 1,003) 2,359 866 308 588 (1) 2,889 (1) 53 60 321 1,125

^{*}United States Army transport.

†No cargo discharged.

‡No cargo laded.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending January 4, 1920.

	,			Car	go-
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Llay-Llay Ansaldo III Point Adams Valdez Effingham Seiyo Maru Ansaldo Laura C. Hall	Chilean Steamship Co. Societa Nazionale Navigazione. Pacific Mail Steamship Co. Alaska Steamship Co. United States Shipping Board. Toyo Kisen Kaisha. Societa Nazionale Navigazione. Pacific Metals Corporation.			(*) 850 911	

^{&#}x27;In last week's report.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286). Age limits do not apply to persons entitled to preference because of military or naval service:

Administrative assistant, chief clerk, administrative assistant, property officer; administrative assistant, mess officer; administrative assistant, pharmacist (male and female); No. 23, \$1,200 to \$1,500 a year; January 21, 1920; form 1312; age, 25 years, but not 50 years.

Meteorologist (male and female); \$1,600 to \$3,000 a year; No. 553-amendment. The announcement is made of the postponement from December 23, 1919, to January 6, 1920, of the close of receipt

ment is made of the postponement from December 23, 1919, to January 6, 1920, of the close of receipt of applications for the open competitive nonassembled examination for meteorologist.*

Laboratory assistant (male and female); No. 2-amendment; January 7-8, February 4-5, and March 3-4, 1920. It is announced that the entrance salary of the position of laboratory assistant in the U. S. Navy Yard, Washington, D. C., to be filled from this examination, is \$6.40 per diem, instead of \$6 per diem, as stated in the original announcement of this examination.

Gas inspector (male and female); \$1,500 to \$1,800 a year; No. 26; January 20, 1920; form 2118; age, 20 years but not 45 years.*

Automatic sprinkler inspector (male and female); No. 35; \$1,200 a year; January 20, 1920; form

1312; age, at least 20 years.* Mechanical engineer in experimental work (male and female); No. 24; \$10.80 per diem; January 20.

1920; form 2118; age, 25 years, but not 45 years.*
Laboratorian qualified in metallography (male and female); No. 22; \$4.40 per diem; January 13, 1920; form 1312; age, 18 years, but not 30 years.*
Warehouse supervisor (male and female); No. 21; \$2,000 to \$3,000 a year; January 13, 1920;

form 1312; reasonable age limits.*

Ordnance engineer (male and female); No. 20; \$3,000 to \$5,000 a year; January 13, 1920; form 1312; reasonable age limits.*

Tank expert (male and female); No. 30; \$1.800 a year; January 13, 1920; form 1312; age, 21 years and over.*

Assistant aeroplane inspector (male and female); \$7.20 a day; January 20, 1920; No. 45; form 1312;

Assistant aeroplane inspector (male and female); \$1.20 d day, Jahudary 20, 1720, No. 4, No. 2, No. 2, No. 34; form 2118; age, 25 years but not 45 years.*

Assistant physicist, qualified in aeronautics (male and female); \$2,100 a year; January 20, 1920; No. 30; form 1312; age, within reasonable age limits.*

Camouffage expert, air service (male and female); \$2,100 to \$3,600 a year; January 20, 1920; No. 36; form 1371; age, 21 years but not 55 years. Must be filed with the Secretary of the Sixth Civil Service District, Post Office, Cincinnati, Ohio, prior to the hour of closing business on January 20, 1920. Oil gauger (male and female); \$1,200 a year; February 3, 1920; No. 50; form 1312; age, 20 years and over \$1.200. and over.

Steel plate transferrer (male and female); \$2,600 a year; No. 2269-supplemental, form 1800.†
Technicist (hydrophones); technicist (shop mechanician), (male and female); \$7.68 a day; January 20, 1920; No. 28; form 1312; age, 21 years and over.*
Textile expert (male and female); \$3,500 a year; No. 33; form 1312; January 20, 1920; age, within

reasonable age limits.*

reasonable age limits.*

Telephone and telegraph engineer, Naval Communication Service (male and female); \$4,000 a year; No. 37; form 1312; January 20, 1920; age, within reasonable age limits.*

Assistant in plant histology (male and female); \$1.620 to \$1,800 a year; February 4, 1920; form 1312; age, 20 years but not 45 years.

Assistant explosives chemist (male and female); \$1.800 to \$2,400 a year; January 27, 1920; age, within reasonable age limits.*

within reasonable age limits.*
Civilian aid for purchasing; civilian aid for shipping; civilian aid for salvage; civilian aid for steel and metal; civilian aid for stock upkeep; civilian aid for electrical stock; civilian aid for ordnance stock; civilian aid for fuel supply; storehouse superintendent (male and female); \$11.36 per day; January 27, 1920; form 1312; age within reasonable age limits.*
Clerk with knowledge of greenhouse practices (male and female); \$1,500 a year; January 21, 1920; form 1312; age, under 45 years.
Micronalyst (male and female); \$1,200 to \$1,800 a year; February 3, 1920; age, 22 years and over.
Purchase agent (male and female); \$2,000 a year; February 4, 1920; form 1312; age, 21 years and over.

Topographic and subsurface draftsman (male and female); \$5.20 to \$7.20 a day.*

Nonassembled. Date given for nonassembled examination is the last day for filing applications and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

†Nonassembled. Applications will be received at any time until further notice.

Prices of Miscellaneous Supplies.

The following are prices to individuals and companies, including the 25 per cent surcharge which covers handling and storage. They are effective January 1, 1920:

Commodity.	Unit.	Price.
Brass, bar	Lb.	\$0.50
Queen wheat	Lb.	.625
Bronze, Tobin	Lb.	.375
Coment at Panama.		
Department of United States Government (includes surcharge and bags)	Bag	1.1925
Credit for empty bags returned. [Individuals and companies (includes surcharge and bags)	Bag	. 085
Individuals and companies (includes surcharge and bags)	Bag	1.765
Credit for empty bags returned	Bag	. 25
Cement, at Colon:		
Department of United States Government (includes surcharge and bags)	Bag	1 0476
Credit for empty bags returned	i pas	.085
Individuals and companies (includes surcharge and bags)	Dag	1.58
Credit for empty bags returned	Bag	. 25
Charcoal.	Cws.	9375
Copper, bar	Lb.	50
Gasoline, in drums (motor grade)	Gal.	4375
for dichard	LLD.	125
Lead, pig Lumber, ceiling, siding, and flooring 1" by 6".	Lb.	10
Lead, pig	M ft. B.M	95.19
Lumber, centing, stating, and moting 1 by	M ft. B.M	100.00
Lumber, flooring, 1" by 3" and 1" by 4". Lumber, yellow pine or fir (except ceiling).	M ft. B.M.	83.56
Metal, yellow	Lb.	4375
Nuts, iron, machine, hexagonal.	Lb.	. 225
Nuts, iron, machine, square	Lb.	1875
Nuts, fron, machine, square	Lb.	0625
Nails, galvanized	Lb.	.10
Oakum, Navy, spun	Lb.	2125
Oakum, Navy, unspun	Lb.	2125
Fuel oil, at Balboa and Cristobal—in bulk:		1
United States Army and Navy, and vessels operated by same	42-gal. bbl.	\$1.50
Commercial vessels and individuals and companies	42-gal. bbl.	*1.50
Individuals and companies from tank No. 116, Balboa	42-gal. bbl.	*1.54
Thel oil, at Balboa and Cristobal—in drums or barrels:		}
United States Army and Navy and vessels operated by sams	. 1 42-Kal. bbl.	+1.78
Commercial vessels and individuals and companies	42-gal. bbl.	*1.78
Commercial vessels and individuals and companies		
Oils, greases, and lubricants: Oil, air compressor cylinder	. Gal.	,625
Oil, ammonia cylinder	. Gal.	. 4378
Oil busine Wilder	Gal	1.378
Oil, burning, "Colas" Oil, cylinder, dark marine, "Texas" Oil, cylinder, ice machine, steam, "Garnett"	Gal	.876
Uii, Cylinder, dark marine, 16Ass	Gal	1 00

Commodity.	Unit.	Price
ls, greases, and lubricants—continued:		
us, greases, and undreants—continued: Oil, engine, "Active"—in tins Oil, engine, "Cetus"—in tins Oil, engine, "Cetus"—in barrels. Oil, gas engine, "Texas," heavy—in drums. Oil, gas engine, "Urea"—in barrels. Oil, gas engine, "Urea"—in barrels. Oil, gas, engine, "Urea"—in drums. Oil, gas, engine, "Algol"—in drums. Oil, gas, engine, "Algol"—in drums.	Gal	\$0.78
Oil, engine. Cetus —in tins.	Gai	.68
Orl, engine, Cetus —in parreis.	Gal	.56
Oil, gas engine, 1 exas, neavy—in drums.	Gal	53
Oil gas engine, Ursa — in Darreis.	Gal.	.81
on, kas engine, "18a —III cases.	Gai) 87
Oil Perosene in June	Gal	.56
9il, kerosene—in drams 9il, kerosene—in tins	Gal Gal	.31
Oil, linseed, boiled	Gal	2.18
)H, linseed, raw	Gal	2.56
처, linseed, raw Oil, locomotive, engine.	Gai	2.00
Oil, lard	Gal	2.3
Oil, marine engine, 'Gargoyle''	Gai	1 1.1
Oil, marine engine, "Atlas"	Gal	1 .6
Oil. marine, dark, cylinder, "Vacuum,"	Gal	1.1
Oil, marine, engine, "Dolphin"	Gal	43
Dil. marine, engine, "Texas"	Gal	1 -
π, "Mineral Seal"	Gal	31
al, nonliquid.	Lb	i .
Dil, locomotive, engine. Dil, lard. Oil, marine engine, "Gargoyle". Dil, marine engine, "Atlas" Dil, marine, dark, cylinder, "Vacuum," Dil, marine, engine, "Dolphin" Dil, marine, engine, "Texas". Ti., "Mineral Seal" Til, nonliquid. Til, stationary encine. Dil, signal Li, signal Li, valve Dil, car	Gai	.3
ni, sperm	Gal	2.8
Ji, 98287	Gal	1 1.3
The control of the co	Gal	1 ,
Oil, car clite. ax, ixmp.	Gal	1 2
at ismn		i
ease black gear	Lb Lt	.11
ax, is mp. ease, black, gear ease, yellow, cup, Vo. 3 ease, yellow, cup, No. 5. ease, yellow, cup, No. 5. ease, tod, special ease, tunnel bearing	Li	
ease, yellow, cup. No. 5.	Lb	.13
ease, rod, special	Lb	1 .2
ease, tunnel bearing	LE	1
llow	LL	1 2
rpentine	Gal	2.
asse, tunel bearing llow rpentine. rpentine substitute	Gal.	. 46
	Lb	.11
	Lb	1 1
int, lead, white, in oil	Lb	1 .
int. sinc, white, dry	l Lib	1 2
int, lead, white, in oil. int, sinc, white leaded, 35 per cent in oil. rets Per, Manila, 4" diameter	LŁ	1 .18
int, white leaded, 3b per cent in oil	Ih	18
vete	Lb.	1 .
	Cfs	1 .
pe Manila, *" diameter pe, Manila, *" diameter	Cft	1.6
ne Manilo & diameter	Cfi Cfi	4 00
De Marila I'l diemeter	Cft	
pe, Manila, * diameter pe, Manila, * dismeter pe, Manila, * diameter pe, Manila, I diameter	Cft	4.3
pe. Manila, 1" diameter	Cft.	7
pe, Manila, 13" diameter	Cft.	12 18
pe, Marila, 1†" diameter	Cfi.	16.50
po, Manile, 12" diameter	Cft	26
po, Manila, 1 diameter po, Manila, 2 diameter po, Manila, 2 diameter	Cft	31
	Cft.	47
pe, Manila, 3" diameter	Cft.	77
ne, Manila, 3" diameter. ne, Manila, 33" diameter.	Cft.	102
el, bar	Lb.	.06
el, bar al, spring	Lb.	.13
el, cold rolled, rd	Lb.	.08
el, sheet. el, structural (angles, beams, etc.)	Lb.	06
el, structural (angles, beams, etc.)	Lb.	.06
I, DIOCK	Lb.	.7
1. D&DC8	Lb.	1
1. SDeet	Lb.	1
Spers, cur	Lb.	
	Lb.	.21
ste, white c, boiler plate, §" by 6" by 12".	Lb.	
c. Notice Distr. (" by h" by 12"	Lb.	1

Item now on hand purchased at a cost over the price shown above will be given the purchase price.

Route Service Jitney—Cristobal-Mt. Hope.

The following is the schedule of the official jitney service between the Terminal building at Cristobal and Mount Hope. Cars stop at the office of the Commissary Division each way:

Leave Term	inal Building.	Leave Mo	unt Hope.
A. M.	P. M.	A. M.	P. M.
8.00	12.30	8.15	12,45
8.30	1.00	8.45	1.15
9.00	1.30	9.15	1.45
9.30	2,00	9.45	2.15
10.00	2.30	10.15	2.45
10.30	3,00	10.45	3.15
	3.30		3.49

Deceased and Insane Employees.

The estates of the following deceased or insane employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

DECEASED.

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Frederick Elias Samuel Grant Isaac Appleton Robert McKenzie	28524 22561	Jamaica	Red Tank Panama	Panama Railroad Dredging Division Supply Department Mechanical Division	December 21, 1919. December 19, 1919

INSANE.

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of commitment.
Estimas (Ernest) Adilph Chas. Griffith	20758 31808	Martinique Barbados	Colon	Health Department. Coaling Station	December 13, 1919 December 18, 1919.

Official Circulars.

Executive Order.—Acquisition of Vessels of Hostile Nations.

THE PANAMA CANAL. EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., December 20, 1919. CIRCULAR No. 601-98.

The Executive Order quoted below is published for the information of all concerned.

JAY J. MORROW. Acting Governor.

WHEREAS the following Joint Resolution adopted by Congress was approved by the President May 12, 1917:

"Joint Resolution Authorizing the President to take over for the United States the possession and title of any vessel within its jurisdiction, which at the time of coming therein was owned in whole or in part by any corporation, citizen, or subject of any nation with which the United States may be at war, or was under register of any such nation, and for other purposes.

"Resolved by the Senate and House of Representatives of the United States of America in Congress Assembled. That the President be, and he is hereby, authorized to take over to the United States the immediate possession and title United States the immediate possession and title of any vessel within the jurisdiction thereof, including the Canal Zone, and all territories and Insular possessions of the United States except the American Virgin Islands, which at the time of coming into such jurisdiction was owned in whole or in part by any corporation, citizen, or subject of any nation with which the United States may be at war when such vessel shall be taken, or was flying the flag of or was under register of any such nation or any political subdivision.

taken, or was flying the flag of or was under regis-ter of any such nation or any political subdivision or municipality thereof; and, through the United States Shipping Board, or any department or agency of the Government, to operate, lease, charter, and equip such vessel in any service of the United States or in any commerce, foreign or coastwise.

"Sec. 2. That the Secretary of the Navy, be, and he is hereby, authorized and directed to appoint, subject to the approval of the President, appoint, subject to the approval of the Fresident, a board of survey, whose duty it shall be to ascertain the actual value of the vessel, its equipment, appurtenances, and all property contained therein at the time of its taking, and to make a written report of their findings to the Secretary of the Navy, who shall preserve such report with the records of his department. These findings shabe considered as competent evidence in all pro-

be considered as competent evidence in all proceedings on any claim for compensation."

AND WHEREAS from time to time during the period of the war, vessels which were at the time of coming into the jurisdiction of the United States owned in whole or in part by a corporation, citizen or subject of the Empire of Germany, a nation with which the United States is now at war, or vessels which were flying the flag or under the register of the Empire of Germany or of a political subdivision or municipality thereof, or of any nation with which the United States is at war, have been taken over and operated by the United States. Now THEREFORE, the possession and title of the

Now THEREFORE, the possession and title of the United States in all such vessels is taken over in accordance with Joint Resolution adopted by Congress and approved by the President May 12, 1917.

WOODROW WILSON

THE WHITE HOUSE. November 24, 1919.

*See The Panama Canal circular No. 601-65

Appointment.

THE PANAMA CANAL,

EXECUTIVE OFFICE BALBOA HEIGHTS, C. Z., January 5, 1920

CIRCULAR No. 661-81;

Effective this date, Mr. Robert W. Glaw to appointed Paymaster of The Panama Canal vica Mr. John H. McLean, resigned.

JAY J. MORROW Acting Governo

Accountable Official.

THE PANAMA CANAL. ACCOUNTING DEPARTMENT

BALBOA HEIGHTS, C. Z., December 27, 1914 CIRCULAR No. 226:

CIRCULAR NO. 220; Effective December 26, 1919, Mr. H. G. Cornta waite is designated an accountable official of The Panama Canal, and as such will account for all nonexpendable property in use by the Division of Metcorology and Hydrography.

H. A. A. SMITH

Auditor The Panama Canas Approved: JAY J. MORROW, Acting Governor.

Census of the Canal Zone.

THE PANAMA CANAL. EXECUTIVE DEPARTMENT.

BALBOA HEIGHTS, C. Z., December 31, 1919. To all concerned—A census of the Canal Zone will be begun on January 2, in accordance with the provisions of Public Law No. 235 of the 65th Congress, and instructions from the Bureau of the Census at Washington.

Consus at Washington.

The law places upon all persons over 18 years of age the duty of answering correctly all questions on the census schedules applying to themselves and the families to which they belong, under penalty of a fine of \$100.

For purposes of enumeration the Canal Zone 18 divided into the following districts: District No. 1, Balboa; District No. 2, Ancon and Balboa Heights; District No. 3, Corozal, Red Tank, and Pedro Miguel; District No. 4, Paraiso and all points on either side of the Canal to Gatun; district No. 5, Gatun and Cristobal.

Only persons actually domiciled in the Canal Zone will be enumerated. This excludes all employees who work in the Canal Zone but live in the terminal cities; but includes all persons who live in the Canal Zone whose work may be in the terminal cities.

terminal cities.

No enumeration will be made of Army and Navy posts, either for service personnel or for civilians domiciled within the posts or reserva-

Enumerators shall be paid at the rate of 4 cents a name or \$6 a day in the judgment of the Super-

visor.

The Chief of the Burean of Statistics is designated Supervisor for the Canal Zone.

JAY J. MORROW, Acting Governor.

Cement Sweepings.

PANAMA RAILROAD COMPANY,

PANAMA RAHLROAD COMPANY,
OFFICE OF SUPERINTENDENT,
BALBOA HEIGHTS, C. Z., December 30, 1919.
All concerned—The Panama Railroad has on
band 251 sacks of cement received on the Steamship Lake Wilson, December 21, 1919.
This cement is known as sweepings, or loose
cement picked up after the discharge of steamer.
There is very little foreign substance to be found
in it, and for almost any concrete work, it is just
as good as any cement.

In it, and for almost any concrete work, it is just as good as any cement.

We will be glad to have you bid on this lot of cement before 3 p. m., Thursday, January 8, 1920. Please make your bids on the basis of keeping the bags, and also returning the bags to us. A charge of 10 cents per bag will be collected when the cement is delivered. This charge will be refunded when bags are returned in usable condition.

S. W. HEALD. Superintendent.

Misdirected Letters.

BALBOA HEIGHTS, C. Z., January 5, 1920. The following insufficiently addressed letters and parcels have been received in the office of the Director of Posts and may be obtained upon request of the addressees. Requests for forwarding may be made by telephone, calling No. 182, Balboa:

Babbitt. Mrs. Josephine Holstein, Mrs. O., Box 165 Hulig, B. H., Box 32 King, Lewis Brooks, Austin

Claybourne, Wm.
Sonnell, Miss Pasty, Lane, Mrs. S. A., Box 114
Daniel, Mrs. A. E. Daniels, Edgar Polillon, Mrs. M.
Emia, Omer Sharples, J. H. M., Box 32

Hulig, B. H., Box 32

King, Lewis
Lane, Mrs. S. A., Box 114

Nancis, James
Pearson, Eustaclo
Ryan, F. J.

Sharples, J. H. M., Box Box 307
Daniel, Mrs. A. E.
Daniels, Edgar
*Dillon, Mrs. M.
Emia, Omer
Goodger, Donnan P.
Hinkey, Charles, Box 541
Hollis, Dr. D. T.

114
Nancis, James
Pearson, Eustaclo
Ryan, F. J.
Sharples, J. H. M., Box
Sharples, J. H. M., Box
Wheeler, D. W.

*Parcel.

Cable Notice.

PANAMA RAILROAD COMPANY, OFFICE OF MASTER OF TRANSPORTATION, BALBOA HEIGHTS, C. Z., January 2, 1920

BALBOA HEIGHTS, C. Z., January 2, 1920. To agents and operators—The following information has been received from the Central & South American Telegraph and Cable Company: "Western Union ad ises that normal route to British West Indies south to Jamaica and to British Guiana interrupted increasing rates quoted in tariff book by 32 cents per word."

W. F. FOSTER, Master of Transportation

Joint Commission.

Rule of Dismissal.

In the matter of the claim of Mrs. Ignacia C. as Hunt, Viuda de S. Salvador, docket No. 2901: J. H. Stilson and Ruben S. Arcia, docket No. 2909: 2909: Martha Burat de Veaux, docket No. 2910. H. A. Melville and Florence Melville, docket No. 3500, rule of dismissal No. 441, December 29, 1919—On the 11th day of December, 1914, Mrs. Ignacia C. de Hunt, Viuda de S. Salvador, filed her claim, docket No. 2901, in the office of the Joint Commission, in which she asked for a judgment of \$3,995; on the 11th day of December. Joint Commission, in which she asked for a judgment of \$3.995; on the 11th day of December, 1914, J. H. Stilson and Ruben S. Arcia filed their claim, docket No. 2909, in which they asked for a judgment of \$800; on the 11th day of December, 1914, Martha Burat de Veaux filed hei claim, docket No. 2910, in which she asked for a judgment of \$12.450; on the 27th day of March, 1915, H. A. Melville and Florence M. Melville filed their claim, docket No. 3590, in which they asked for a judgment of \$6.000.

These four cases came on for hearing by the Joint Commission on the 22d day of December, 1919. It appears to the Commission that all of these cases are beyond the jurisdiction of the Joint Commission as that jurisdiction is laid down in the Treaty of November 18, 1903. It appears

Joint Commission as that jurisdiction is laid down in the Treaty of November 18, 1903. It appears that the dispute in each of these cases is one between the respective claimants, on the one hand, and the Panama Railroad Company on the other hand, with reference to lands located within the city of Colon, and no reason is apparent why the Joint Commission would attempt to assume jurisdiction of cases of this character when the courts of the Republic of Panama are open to the claimants, and when such courts are vested

with full jurisdiction to adjudicate such disputes. The four cases above enumerated are therefore hereby dismissed.

FEDERICO BOYD, GEORGE A. CONNOLLY, JULIO J. FABREGA, BURT NEW, Commissioners,

Shipping Commissioner's Sale.

Balboa Heights, C. Z., December 29, 1919.

The Shipping Commissioner, Room 305. Administration Building, Balboa Heights, C. Z., will accept bids up to noon, January 20, 1920, for the purchase of portions of the personal effects belonging to the estate of G. V. Doval, deceased American seaman. The property to be offered for sale consists of 2 suitcases, an assortment of wearing apparel, toilet articles, and miscellaneous personal effects, a complete list of which will be found at each clubhouse, each Zone post office, and at the offices of the Deputy Shipping Commissioners at Balboa and Cristobal. Bids may be made for the entire lot of the effects of the decedent, or be limited to individual articles. Prospective bidders, desiring to examine the effects, should apply to the Commissioner's office on any business day. Bids should be in writing and submitted in sealed envelopes addressed to the Shipping Commissioner, Balboa Heights, C. Z. The cover should be marked "Bid on effects of (insert name of seaman) deceased." The Shipping Commissioner reserves the right to reject any or all bids.

C. H. Calhoun, Shipping Commissioner, Balboa Heights, C. Z., December 29, 1919

C. H. CALHOUN, Shipping Commissioner,

Sydney.

United States Shipping Board.....

*DEPARTURES.

usur and all hours greater than 12 are postmeridian.

Liberty

Jan. 3.....

Valparaiso.

Jan. 2...... | Seiyo Maru..... | Toyo Kisen Kaisha......

"Other than ships passing through the Canal

*ARRIVALS.

Hours are expressed on the 24-bour

ditions to Commissary Stock.

Success Section

Grocery Section.	
Beans, pork and, Franco-American, 18-oz.	
Beans, pork and, Franco-American south. in. State, peanut, Beech-Nut, 3½-oz, jar. Butter, peanut, Beech-Nut, 7-oz, jar. Butter, peanut, Beech-Nut, 12-oz, jar. Cheese, Camembert, Elkhorn brand, ½-lb, tin.	.13
Butter, peanut. Beech-Nut, 32-02. jar	, 23
Butter peanut, Beech-Nut, 12-oz. jar	.36
Cheese, Camembert, Elkhorn brand, 1-lb.	. 28
tinCheese, Kraft, Elkhorn brand, ½-lb. tinCheese, Limburger, Elkhorn brand, ½-lb.	.33
Cheese, Kraft, Elkhorn brand, 1-lb.	
tin	.28
tin	.28
tin Swigs Ellaborn brand talb. tin	.28
Corn sugar, 10s. tin	.92
Jam, apple and plum (made in England,	.18
repacked by P. C.), 10-oz. jar	. 10
land repacked by P. C.), 10-oz. jar	.18
Marmalade, orange (made in England, re-	10
Cheese, Roquefort, Elkhorn brand, 4-lb. tin	.18
*I wo cents felling for feeling of empty	.28
Jelly, calf's foot, 9-oz. jar	40
Plums, greengage, 2½s. tin	20
Spaghetti, Franco-American, 18-oz. tin Tobacco: Piper, Heidsick, plug, 13-oz. tin.	.13
Tongue, lamb, pickled, qt. jar	.85
Dry Goods Section.	
Beadspreads, scalloped cut corners, em-	6.15
Buttons, cuff, rolled gold and mother-of-	
Beadspreads, scalloped cut corners, emboroidered edge, pink or blue, ea Buttons, cuff, rolled gold and mother-ofpearl, stiff post, pr Buttons, cuff, rolled gold plated and mother-ofpearl, stiff post, pr	.89
Buttons, cuff, rolled gold plated and mothers	1.10
Or pearly out a grant of	. 25
Buttons, cuff links, sterling silver, enamer, pr	1.35
Cambric, 30", yd	1.10
Cases, pillow, linen, bahy, ea	2.20
Cases, pillow, linen, haby, ea	1.90
Cases, pillow, linen, baby, ea	.80
Envelopes for note paper, gray linear lawn	
Gladstone, 100s. box	1.70
Handkerchiefs, linen, H. S., ea	31
Nightgowns, ladies', ea	.31 4.70 4.25
Nightgowns, ladies', ea	4.25
Paper, note, gray linear lawn Gladstolle,	1.80
Petticoats, white, ea	1.50
Curtain, draperies, cretonne, yd. Envelopes for note paper, gray linear lawn Gladstone, 100s. box. Handkerchiefs, linen, H. S., ea. Handkerchiefs, ladies', fancy, 3s. pkg Nightgowns, ladies', ea. Nightgowns, ladies', ea. Paper, note, gray linear lawn Gladstone, 100s. box. Petticoats, white, ea. Stationery: Invitations, party, blue or pink, box	2.4
box Suiting, linen, 27", yd	1.55
Hardware Section.	
Automobile and motorcycle accessories:	.90
Gloss, 1-qt. can. Tape, Evergrip, ½-lb. roll. Tubing, pump, plain, ½", foot	.31
Tubing, pump, plain, 1", foot	.08
Pouches tobacco self-closing rubber ea	4.90
Griddles, aluminum, ea	
wheel (sewing machine adjunct), ea	.07
Boot and Shoe Section.	
Boys' nailed Scout Shoes, pr	3.15
Men's nailed Scout Shoes, pr	3.55

Examination for Colored Teachers.

Examination for Colored Teachers.

An examination will be held at the office of the Superintendent of Schools, Administration Building, Balboa Heights, Friday and Saturday, January 9 and 10, 1920, for colored teachers who desire to qualify for consideration for teaching positions in the Canal Zone colored schools as openings may occur from time to time.

All interested should forward their credentials and applications for taking examination to the Division of Schools, Balboa Heights, C. Z., and be on hand for the examination on those two days, as another examination for this purpose is not being planned for this school year.

MOVEMENTS OF OCEAN VESSELS.—Continued from page 277.

*Armityals. From. Date. Vessels. Line. Line. From. Date. Vessels. Line. Line. From. Dec. 31. Lake Wilson. United States Shipping Board. United Fruit Co. Colombian ports. Jan. 1. Atenas. United Fruit Co. O. Stray. Cartagen. Jan. 1. Atenas. United Fruit Co. O. Stray. Cartagen. Jan. 1. Atenas. United Fruit Co. New York. Jan. 1. Atenas. United Fruit Co. Contagen. Inman Railroad Steamship Line. New York. Jan. 1. Triebut. Hall Brothers Steamship Co. Inman Railroad Cartle Industry. Saint Naz. ire, wayports. Jan. 2. Sann Marta. S. O. Stray.	*ABRIVALS. Line. Line. Line. Line. Line. Date. United Fruit Co. United Fruit Co. Stray. United Fruit Co. Stray. Cartagena. New York and Habana. United Fruit Co. Cartagena. Cartagena. So Stray. Line. Dec. 31. Lake Wilson United Fruit Co. Cartagena. Logariage Luited Fruit Co. Cartagena. Logariage Luited Fruit Co. Cartagena. Logariage Luited Fruit Co. Cartagena. Luited Fruit Co. Logaria Marta. Luited Fruit Co. Cartagena. Luited Fruit Co. Logaria. Luited Fruit Co. Cartagena. Luited Fruit Co. Cartagena. Luited Fruit Co. Logaria. Cartagena. Luited Fruit Co. Logaria. Luited Fruit Co. Cartagena. Luited Fruit Co. Logaria. Luited Fruit Co. Logaria. Logaria. Luited Fruit Co. Logaria. Luited Fruit Co. Cartagena. Luited Fruited Cartagena. Luited Fruited Cartagena. Luited Cartagena. Luited Cartagena. Luited Cartagena. Luited Cartagena. Luited C			PORT OF CRISTOBAL—Continued.	3AL—Continued.			
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Dec. 31. Lake Wilson United States Shipping Board United States Shipping Board United States Shipping Board United States Shipping Board United Fruit Co	ited Fruit Co. New York and Habana. Dec. 31. Lake Wilson. United States Shipping Board. United Fruit Co. Colombian ports. O. Stray. O. Stray. Jan. Jan. Jan. Trident. Hall Brothers Steamship Co. Saint Naz. ire, wayports. Jan. Santa Marta Santa Marta S. O. Stray.	ssels.	Line.	From.	Date.	Vessels.	Line.	For.
		Santa Marta. Gacapa. Vindal Gen. W. C. Gorgas. Middlebury.	United Fruit Co. United Fruit Co. S. O. Straw. Panama Railroad Steamship Line. Panama Railroad Cattle Industry. French Line.	New York and Habana. Colombian ports. Cartagena. New York. Cartagena. Saint Naz. ire, wayports.	Dec. 31. Jan. 1. Jan. 1. Jan. 1. Jan. 1. Jan. 2. Jan. 2.	Lake Wilson Carlago Atenas Zacapa Trident Santa Marta.	ng Board	New York. N. Orleans and wayports Colombian ports. New York and Kingston. Pacro Colombia. N. Y. and Port Limon.

Rates at Hotel Aspinwall, Taboga.

The following are the current rates at the Aspinwall.	
Employees: Dinner, lodging, and breakfast	\$2.00
Employees per day	2.75
Children under 12 years of ageper day	1.25
per day	1.50
Employees for stay of 7 daysper day	2.00
Reduction of 10 per cent for employees on above rates for stay of 30 days. Further reduction of 10 per cent for families of four or more.	
Nonemployees	3.50
Children of nonemployeesper day	1.50
Servants of nonemployeesper day	1.75
Meals without room	1.00
Dinner	1 25

Hotel patrons desiring to send trunks should arrange to have them delivered at the launch landing by 9.30 a. m., addressed to themselves, care of Hotel Aspinwall. Freight will be transported on the a.m. trip on Mondays, Thursdays, and Saturdays.

For further information address Manager, Hotel Aspinwall, Taboga, via Balhoa, C. Z.

Leave Port Captain's boat landing near dock 19

Hotel Aspinwall Launch Schedule.

Following is the schedule of launch service maintained by the Supply Department between Balboa and the Hotel Aspinwall on Taboga Island:

Daily.

10 00 a m

trave for captain a route laming, near dock to	10 00 0						
Leave Taboga	8 00 a. r	n					
Sundays and holidays.							
Leave dock 19, Balboa	10.00 a. r	Tı					
Leave Taboga returning	11.30 a. r	n					
Leave dock 19, Balboa	4.30 p. r	n					
Leave Taboga returning	6 00 p. r	m					
Saturdays and days preceding holidays.							
Leave dock 19, Balboa	10.00 a. s	Ti					
Leave Taboga returning							
Leave dock 19, Balboa	6.00 p. r	n					
Returning from Taboga the following day	8.00 a. r	n					

Fores (each way)—Employees, 35 cents; nonemployees, 60 cents; children of employees over 6 and under 12 years old, 25 cents; of nonemployees, 40 cents.

Hotel patrons desiring to send trunks should arrange to have them delivered at the launch landing.

Hotel patrons desiring to send trunks should arrange to have them delivered at the launch landing by 9.30 a.m., addressed to themselves, care of Hotel Aspinwall. Freight will be transported on the a.m. trip on Mondays, Thursdays, and Saturdays.

For further information address Manager, Hotel Aspinwall, Taboga. via Balboa. C. Z

Schedule of Official Jitney Service.

Following is the schedule of the official jitney plying between Balbochops and the Ancon police station, carrying employees in the conduct of official business, upon presentation of passes issued by the Chief Quartermaster, or of the "special pass" issued by the Governors

FROM ANCON POLICE STATION TO BALBOA SHOPS.

Police Station	
Administration Building	Leave 7 minutes and 37 minutes after the hour
Balboa Commissary	Leave 10 minutes and 40 minutes after the hour.
Balboa Shops	Arrive 15 minutes and 45 minutes after the hour.
•	

FROM BALBOA SHOPS TO ANCON POLICE STATION.

0 11 01	
Balboa Shops	Leave 15 minutes and 45 minutes after the hour.
Port Captain's Office	Leave 18 minutes and 45 minutes after the hour.
Balboa Commissary	Leave 20 minutes and 50 minutes after the hour.
	Leave 25 minutes and 55 minutes after the hour.
	Arrive on the hour and half hour

Locations of Patients, and Visiting Hours, at Ancon Hospital.

The following table shows the distribution of patients in the new Ancon Hospital buildings and the visiting hours for the various wards and sections:

Section and Ward.	Present number of beds.	Visiting hours.
Rection "A"—White American, male: Ward No. 1, Medical, Eye and Ear. Ward No. 2, Medical, Eye and Ear. Ward No. 3, Surgical Ward No. 4, Surgical. Celle (2).	44 41 44 41 2	Tuesdays, Thursdays, and Saturdays, 2 to 4.30 p.m. Sundays and holidays, 9.30 to 11 a.m. and 2.30 to 4.30 p.m.
	172	
Section "B": White American, iemale	1	Daily except Sunday, 2 to 4.30 p. m.; 6.30 to 8 p. m. Sundays and holidays, 10 to 11 a. m.; 2 to 4.30 p. m.; 6.30 to 8 p. m.
Nursery Private Rooms (40)	16 46 2	No visitors permitted. Daily, 9.30 to 11 a.m.; 2 to 4.30 p. m.; 6.30 to p. m.
0 4 HCP	102	,
Ward No. 9, White foreign, male. Ward No. 10, Colored, eye and ear, convalescent medical. Ward No. 11, Colored Acute surgical. Ward No. 12, Colored Acute medical. Ward No. 13, Colored Convalescent surgical. Ward No. 14, Colored Convalescent surgical. Cells (6). Roome (7).	39 39 39 39 39 6	Wednesdays, Sundays, and holidays, 1.30 to 8 p. za
Ward No. 15. Ward No. 16. Ward No. 17, Colored children. Ward No. 19, White children. Ward No. 19, Colored fema'e medical. Ward No. 20, Colored female surgical. Rooms (6). Cells (6).	39 32 30 41 34 6	Wednesdays, Sundays, and holidays, 1.30 to 3 p. m. Daily, 9.30 to 10 a. m.; 2 to 4 p. m. Wednesdays, Sundays, and holidays, 1.30 to 3 p. w.
#nolation: Floor No. 1. Floor No. 2. Floor No. 3. Floor No. 4.	29 28	No visitors permitted
Total number of beds	99 849	

Emergency passes are issued only by and in the discretion of the ection nurse.

COMMISSARY NOTES.

Music.

Some new numbers of sheet music comprising titles for concert and recital work have recently been received and are on sale in the line stores.

Grape Juice.

It is difficult to obtain from the United States at present certain brands of grape juice in request by commissary customers as stocks in some cases are exhausted and delivery can not be made until the latter part of January when the new juice from the crop just harvested will be ready.

Electrical Goods.

Electric grills and flat irons are still very difficult to obtain. The manufacturer with whom a commissary award was placed some time since has written that owing to the abnormal demands received for these appliances during the past year, especially for the irons, he has fallen very far behind in production. Another reason given is the fact that it is becoming increasingly hard to get the necessary raw materials. It is stated that a partial shipment will probably be made some time in January but it is doubtful whether it will be entirely completed before March, 1920.

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PANAMA RAILROAD PASSENGER TRAIN TIME-TABLE No. 30. EFFECTIVE DECEMBER 25. 1919.	֡
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	ď	PANAMA		LKOA	D PA	ASSEL	CER	TKA	L	ME-I	RAILROAD PASSENGER TRAIN TIME-TABLE NO. 30, EFFE	EFFECTIVE DECEMBER	DEC	KMB	EK 25,	6, 1919.	S.		
MA	MAIN LINE STATIONS.	E STATI	ONS.		J	DAILY.		Daily except	Sat'day Sunday only.	Sunday only.	MAIN LINE STATIONS.	ONS.		I	DAILY.		Sat'day only.	Sunday only.	
					**	9	1	101	-	=				•	60	-	10	12	
Leave					A. M.	A. M.	P. M.	P. M.	P. M.		Leave				A. M.	P. M.	P. M.	P. M.	
Colon				:	7.10	11.00	5.00	11.15	11.30	9.35	Panama		:		11.00	9.00	11.30	9.35	:
New Gatun						00.11	3	11.28	11.45	_	Corozal				11.12	5.10	11.41	9.46	
Gatun					7.27	11.17	5.17	11.40	11.49	9.52	Miraflores Locks		i		11.17	5.15	11.46	9.51	
Monte Lirio				:	7.42	11.32	5.32	11.55	A. M. 12.04	10.01	Red Lank Pedro Miguel			7.34	11.23	5.23	11.53		: :
Twilolo					7 53	11 43		A. M.	19 15		Summit			_	11 35	10	A. M.	10 10	
Darien					8.00	11.50	5.50	f12.18	12.22	10.25	Gambos			7.58	11.47	5.47	12.17	10.22	
					,	P. M.	00		00		Darien		:	_	11.67	2.22	12.28	10.32	:
Gamboa		:	:	:	8.14	12.02	6.02	12.30	12.33	10.37				_	Z. 5	0	10 01	1000	
Summit				:	8.30	12.14	6.24	1 12.42	12.45	10.49	Frijeles		:	0 . I4	12.04	#0.0	12.35	10.39	:
Red Tank							6.26	2	1.00	11.0	Monte Lirio			25	12.15	6.15	12.46	10.50	
Miraflores Loc	кв			:	8.50	12.32	6.30	f1.06	1.05		Gatun.		:	-	12.30	6.30	1.01	11.05	:
Corozal				:	0.54	12.36	6.34	11.10	1.10	11.14	New Gatun.		:		19.40	6.40	1 10	11.	
Panama Heighe					9.05	12.50	6.45	1.20	1.20		Colon			8.55	12.45	6.45	1.15	11.20	
Arrive					A. M.	P. M.	P. M.	A. M.	A. M.	_	Arrive				. W	P. M.	A. M.	P. M.	
					00	9	7	101		11				Ţ	8	•	10	12	
						All tr	sine stop	where ti	me is sh	омп ексе	All trains stop where time is shown except f indicates stop on signal only.	у.							
	Sund'y only. Daily except Sat'y	Sat'y Sat'y		DAILY	.2			LAS	CASCAD	AS BRA	LAS GASCADAS BRANCH STATIONS.		D,	DAILY.		VisCI	except Sat'y. Sat'y.		
	43		39 37	38	88	31						30	32	34	38	38 40			
	A. M. P. M. P. M.	P. M. P	. M. P. M.	I. P. M.	A. M.	A. M.	Leave				Arrive	A. M. A.	A.M. F	P. M. P. M.	M. P.	P. M. P. M.	M. A. M.		:

					:		:			:	:	:		
Sat'y.		A. M.	12.23	12.20	12.07	12.04	12.01	A.M.	11.56	11.51	11.45	11.40	P. M.	42
Daily except Sat'y.	40		11.23						10.56		10.45			40
	80		6.50	6.45	6.31	6.28	6.25		6.21	8.18	6.10	6.05	P. M.	38
	38	P. M.	4.00	3.55	3.41	3.38	3.35		3.31	3.26	3.20	3.15	P. M.	=
DAILY.	34	l Li	12.55	20	35	12.32	12.29	_	12.25 3.31	12.21	12.15	12.10	P. M.	34
А	32	A.M.	9.10	9.05	8.51	8.48	8.45		8.41	_	8.30		A. M.	3.5
	30	A.M.	6.25	6.15	00.9	5.56	:	_	0.40		5.35	-	A. M.	30
LAS CASCADAS BRANCH STATIONS.		Leave	_	Culébra	Paraiso	Pedro Mignel	Red Tank		Miraflores Locks			_	Arrive	
	31	A. M.	6.45	6.55	7.07	7.11	7.14	-	7.19		7.30			=
	60	A. M.	9.25	9.30	9.43	9.46	9 49		9.53		10.05			=
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THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

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at Cristobal, C. Z., under the Act of March 3, 1879.

No. 22.

Notice to Mariners.—Obstructions to Navigation.

THE PANAMA CANAL, BALBOA HEICHTS, C. Z., January 9, 1920.

Balboa Heights, C. Z., January 14, 1920.

CIRCULAR No. 643-68:

Volume XIII.

The following obstructions have this date been reported from the Naval Radio Station at Arlington:

(a) On January 6, 1920 (3 p. m.), in latitude 26° 50' North, longitude 86° 0' West;

a spar buoy, painted red, with figure "18" in black.

(b) On January 6, 1920 (5.15 a.m.), in latitude 33° North, longitude 41° 43' West; hull of large wooden vessel, awash.

JAY J. MORROW, Acting Governor.

CANAL WORK IN NOVEMBER.

The following is the report of the Governor to the Secretary of War, of Canal work in the month of November, 1919:

BALBOA HEIGHTS, C. Z., December 26, 1919.

The Honorable, the Secretary of War,

Washington, D. C.

Sir: I have the honor to submit the following report of The Panama Canal for the month of November, 1919:

CANAL TRAFFIC.

The number of ocean-going commercial vessels passing through the Canal for the month was 180, exclusive of 18 United States Government vessels, as follows: Seven destroyers, 1 fuel ship, 1 transport, 2 subchasers, 1 mine-planter, 5 merchant ships with supplies for Army and Navy, and 1 tug. The total number of ocean-going vessels was 198, in addition to which 1 launch went from Pacific to Atlantic.

Classifications of the traffic are shown in the following tabulations. The net tonnage of 180 commercial ships aggregated 597,148 tons, Panama Canal measurement, and was 72,952 tons less than that of commercial ships passing through the Canal in October, when 196 ships of 670,100 tons made the transit. Their registered gross tonnage was 772,521 tons, and their registered net tonnage 483,827 tons. The cargo carried totaled 575,480 tons of 2,240 pounds, and was 130,403 tons less than that handled in October. Of that in November, 1919, 4,095 tons were carried as deck load. Ships of 14 different nationalities were included in the month's traffic.

The aggregate length of the 180 commercial ships using the Canal in November was 61,417 feet; the aggregate beam and draft were 8,467 feet and 3,741 feet, respectively. The average measurements of the commercial ships were as follows: Length, 341 feet; beam, 47 feet; draft, in salt water, 21 feet; Panama Canal net tonnage, 3,317; United States equivalent net tonnage, 2,716; registered gross tonnage, 4,292; and

registered net tonnage, 2,688 tons.

The United States coastwise trade was made up of 15 vessels, aggregating 55,146 tons, Panama Canal measurement, and carrying 76,307 tons of cargo. From Atlantic to Pacific, 3 ships with a total net tonnage of 11,296 tons, Panama Canal measurement, made the transit, carrying 17,455 tons of cargo. From Pacific to Atlantic there were 12 vessels of 43,850 net tons, carrying 58,852 tons of cargo.

The United States Shipping Board operated 2 of the westbound ships in the coast-

The United States Shipping Board operated 2 of the westbound ships in the coastwise trade, with a net tonnage of 9,329 tons, Panama Canal measurement, carrying 14,255 tons of cargo, and 11 of the 12 vessels castbound. The net tonnage of the 11 ships from Pacific to Atlantic aggregated 38,654 tons, and their cargo amounted to 58,852 tons.

PRINCIPAL COMMODITIES.

The bulk shipments from Atlantic to Pacific were: Four whole cargoes of coal, amounting to 30,335 tons, of which 24,041 tons were from Norfolk to Balboa, 3,814 tons from Newport News to Callao, and 2,480 tons from Norfolk to Peru; 3 whole

cargoes of coke, amounting to 6,504 tons, of which 4,622 tons were from Baltimore to Valparaiso, and 1,882 tons, from Baltimore to Antofagasta; 2 whole cargoes of crude oil, 18,276 tons, of which 9,276 tons were from Tuxpan to Pisagua, and 9,000 tons from Puerto Lobos to Tocopilla; 2 cargoes of cement, 1,180 tons, of which 1,000 tons were from London to Coronel, and 180 tons from Cristobal to Callao; 1 cargo of petroleum, 7,753 tons from Tampico to Pisagua; 1 cargo of sulphur, 6,900 tons from Sabine to Freemantle; 1 cargo of case oil, 6,892 tons, from Port Arthur to Freemantle; 1 cargo of kerosene, 6,192 tons, from New York to Shanghai; 1 cargo of crude naphtha, 4,200 tons, from Tampico to San Francisco; 1 cargo of steel plates, 3,200 tons, from Baltimore to San Francisco; 36 cargoes classified as "general" amounted to 85,652 tons; and 7 cargoes known as "mixed," contained 38,470 tons; and 28 vessels made the transit without cargo.

From the Pacific to the Atlantic the principal commodities were.

From the Pacific to the Atlantic the principal commodities were: Eleven whole cargoes of lumber, amounting to 19,747 tons, of which 5,123 tons were from Portland to Great Britain, 2,006 tons from Hoquiam to Great Britain, 1,861 tons from Vancouver to Great Britain, 2,160 tons from Portland to New York, 1,627 tons from Aberdeen to New York, 2,571 tons from Bellingham to Philadelphia, 1,864 tons from Seattle to Genoa, 1,056 tons from Seattle to Alexandria, and 1,479 tons from Aberdeen to Habana; 12 whole cargoes of nitrate, amounting to 63,489 tons, of which 8,050 tons were from Antofagasta to New York, 6,850 tons from Valparaiso to Philadelphia, 7,100 tons from Iquique to Alexandria, 3,567 tons from Iquique to Bilbao, 2,650 tons from Iquique to Santander, 6,660 tons from Tocopilla to Liverpool, 5,770 tons from Pisagua to Charleston, 5,700 tons from Caleta Buena to Wilmington, 4,709 tons from Taltal to Canary Islands, 4,530 tons from Iquique to Newport News, 4,103 tons from Caleta Colosa to Pasages, Spain, and 3,800 tons from Caleta Buena to Bilbao; 6 whole cargoes of flour, 45,425 tons, of which 21,778 tons were from Portland to New York, 15,657 tons from Tacoma to New York, and 7,990 tons from San Francisco to New York; 2 cargoes of canned pineapples, 7,069 tons, from Honolulu to New York; 1 cargo of wheat, 9,173 tons, from Adelaide to Falmouth; 1 cargo of "produce," 6,680 tons, from Auckland to London; 1 cargo of barley, 3,220 tons, from San Francisco to Great Britain; 1 cargo of sugar, 1,074 tons, from Salaverry to Cristobal; 1 cargo of copra, 469 tons, from Vavau Island to New Orleans; 1 cargo of coffee, 61 tons, from Buenaventura to Cristobal; 25 cargoes of "general," amounting to 81,117 tons; 23 cargoes of "mixed," amounting to 122,402 tons; and 7 ships made the transit in ballast.

LATIN-AMERICAN TRAFFIC.

Commercial vessels passing through the Canal on their way to the west coast of Central and South America during November were, by nationalities, as follows:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
United States. British Spanish Peruvian Norwegian Dutch Chilean (talian Japanese Brazillian Pranaman	21 17 6 6 4 3 3 2 2 1 2	109,106 45,206 22,623 17,273 15,489 17,123 9,096 10,603 10,020 6,872 30	67,595 28,796 14,686 8,160 9,731 10,917 5,521 6,406 6,267 4,245 24	79,759 32,587 16,682 10,742 12,396 13,787 7,989 7,882 7,469 6,576 24	Tons. 70,038 19,886 3,543 13,414 233 1,419 1,048
Total	67	263,441	162,348	195,893	109,681

Of the 67 vessels, 28 with 57,191 tons of cargo, came from United States ports; 17 with 7,581 tons of cargo originated at the Atlantic terminus of the Canal; 5 with 15,339 tons of general cargo came from England; 5 with no cargo from Spain; 3 with 26,029 tons of oil from Mexico; 2 with 1,048 tons of general cargo from Italy; 1 with 2,028 tons of general cargo from Scotland; 1 with 233 tons of general cargo from Holland; 1 with 232 tons of general cargo from Curaçao; 1 with no cargo from Barbados; 1 with no cargo from the Azores Islands; and 2 with no cargo from Colon.

Barbados; 1 with no cargo from the Azores Islands; and 2 with no cargo from Barbados; 1 with no cargo from the Azores Islands; and 2 with no cargo from Colon. Shipments from the west coast of Central and South America through the Canal, during November, were carried by 45 vessels. Nine were bound for United States ports with 50,170 tons of cargo, 7 were bound for Great Britain with 39,543 tons of cargo from Chilean ports; 5 were bound for Tampico in ballast; 4 for Spain with 14,120 tons of cargo; 1 for Holland with 9,900 tons of cargo; 1 for Egypt with 7,100 tons of cargo; 1 for Sweden with 5,350 tons of cargo; 1 for the Canary Islands with

4,709 tons of nitrate; and 16 completed the voyage at the Atlantic terminus of the Canal, discharging 1 bulk cargo of sugar, 1,074 tons, 1 bulk cargo of coffee, 61 tons, and 14 cargoes amounting to 18,631 tons.

By nationalities the ships from the west coast of South and Central America were

as follows:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
British United States Spanish Peruvian Chilean Norwegian Dutch Swedish	19 12 4 3 3 2 1	57,899 69,646 11,719 11,227 9,734 13,565 6,944 3,802	34,650 42,984 7,170 5,455 6,244 8,504 4,414 2,839	45,678 50,754 8,633 7,341 7,800 10,698 6,792 3,969	Tons. 53,266 43,800 17,142 7,133 6,017 8,050 9,900 5,350
Total	45	184,536	112,260	141,665	150,658

PRINCIPAL TRADE ROUTES.

The distribution of the traffic through the Canal in November, 1919, according to the principal trade routes, was as follows:

		Total vesse	els.		ssels in allast.
	Ves- sels.	Panama Canal net tonnage.	Cargo.	Ves- sels.	Panama Canal net tonnage.
Atlantic to Pacific. United States to west coast of South America. Cristobal to west coast of South America. Europe to west coast of South America. United States to Australia and New Zealand. United States to Far East. United States coastwise. Europe to west coast of South America. Mexico to west coast of South America. Mexico to west coast of Vinited States. Cuba to west coast of United States.	28 19 15 7 •2 4 3 3 3 1 1	97,596 24,931 52,982 32,017 5,183 14,674 11,296 13,043 15,616 2,848 2,459 1,593	Tons. 57,191 7,581 18,648 45,562 27,932 17,455 7,572 26,029 4,200 1,439 1,713	13 5 6 1	48,119 1,505 17,224 4,833
Total	88	274,251	215,554	26	71,694
Pacific to Atlantic. West coast, South America to Eirstobal. West coast, South America to Europe. Australia and New Zealand to Europe. United States coastwise. West coast, South America to east coast of United States. West coast, South America to east coast of United States. West coast, South America to Mexico. Canada to Europe. Far East to east coast of United States. West coast, United States to Cuba Miscellaneous Hawaii to Europe. West coast, United States to Cristobal. South Sea Islands to east coast of United States.	16 14 12 12 11 9 5 5 5 2 2 †1 1	24,087 49,468 84,240 43,850 28,345 36,883 26,665 7,258 8,518 3,241 4,562 3,789 1,593 398	19,766 73,622 76,996 58,852 36,199 50,170 9,859 15,700 3,944 7,100 6,000 1,249 469	1 1 5	5,196 7,008 26,665
Total	92	322,897	359,926	7	38,869

^{*}The routings from Atlantic to Pacific classified as "miscellaneous" included 1 vessel of 350 net tons with 232 tons of cargo from Curacao to Buenaventura, and 1 vessel of 4,833 tons with no cargo from Barbados to Mejillones. The routing from Pacific to Atlantic classified as "miscellaneous" was a vessel of 4,562 net tons, with 7,100 tons of cargo, from Iquique to Alexandria, Egypt.

Tables showing the ports from which cargo was shipped and to which it was destined are attached to this report. (See pages 302 and 303.)

SERVICES TO CANAL SHIPPING.

Repairs were made on 96 vessels during the month, 59 at Cristobal and 37 at Balboa. Five vessels were dry docked at Cristobal, and 6 at Balboa. There were no sales of fuel oil to ships from the Canal tanks. Coal sales were 29,144 tons to 95 vessels at Cristobal and 4,984 tons to 18 vessels at Balboa, a total of 113 vessels receiving 34,128 tons. Water sold included 7,092,247 gallons to 155 vessels at Cristobal and 2,379,500 gallons to 82 vessels at Balboa, a total of 237 vessels receiving 9,471,747 gallons. Sales of commissary supplies to commercial ships, of lines other than that of the

Panama Railroad, aggregated \$70,169.82, including \$3,517.15 for laundry supplies at Cristobal, and \$348.66 from Ancon Laundry. Laundry for all ships amounted to \$3,866 71. Tug service performed for vessels using the Canal and the terminal ports was charged at \$17,254.60, of which \$11,046.25 was collected through the office of the Captain of the Port at Cristobal, and \$6,208.45 at Balboa.

STATEMENT OF OPERATIONS.

Details of the business transacted at the Atlantic and Pacific terminals of the Canal are shown in the following tabulations:

	Cristobal.	Balboa.	Total.
ommercial ships making transit of Canal	88	92	18
Commercial ships making transit of Canal	274.251	322,897	597,14
nited States equivalent net tonnage of commercial ships	224 538	264 295	488 8
egistered gross tonnage of commercial shine	224,538 363,523	408,998	772.5
egistered net tonnage of commercial ships. argo through Canal in commercial ships, tons of 2,240 pounds. eek load cargo, included in above. ationality of commercial ships through Canal:	223,888 215,554	264,295 408,998 259,939 359,926	772,55 483,85 575,48
argo through Canal in commercial ships, tons of 2,240 pounds	215.554	359,926	575.48
eck load cargo included in above	471	3,624	4,0
etionality of commercial shine through Canal	212	0,021	2,0
British	29	35	
Brazilian.	1		
Chilean.	3	3	
Danish	i	۰	,
Dutch	3		
	0	1 1	•
French	2	5	
[talian			
Japanese	2 5		
Norwegian	5	4	
Panamanian	2		
Peruvian	6	3	
Spanish. Swedish	6	4	
Swedish		3	
United States	28	34	
Total	88	92	1
nama Canal net tonnage of commercial ships through the Canal:			
Brazilian	6,576		6.5
British.	80,174	147,421	227 5
Chilean	7 080	7,800	6,5 227,5 15,7 5,3
Danish.	7,989 5,303 13,787	7,000	5 2
Dutch.	12 707	6,792	20,5
Dutch	10,101		20,0
French		7,258	7,2
Italian	7,882		7,8
Japanese	7,469		7,4 30,7
Norwegian Panamanian	17,448	13,341	30,7
Panamanian	24		
Peruvian	19,742	7,341	18,0
Spanish	17,097	7,341 8,633	25,7
Swedish	,	11,870	11,8
United States	99,760	112,441	212,2
C MICCO C COLOGO ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !			
Total	274,251	322,897	597,1
Total	2,1,201	022,000	,-
Canal:			
Brazilian	6,536		6,5
British	64,464	119,924	184,3
Chilean	4,927	5,923	10.6
Danish.	4,228	0,020	10,0
	10,945	1	
			4,2
Dutch	10,010	4,394	10.3
Dutch French		6,909	15,3
Dutch French Italian	5,981	6,909	15,3
Dutch French Italian	5,981	6,909	15,3 6,9 5,9 6,2
Dutch French Halian Japanese Norwegian	5,981 6,287 14,711	4,394 6,909	15,3 6,9 5,9 6,2 25,8
Dutch French Italian Japanese Norwegian Panamanian	5,981 6,287 14,711 24	6,909	15,3 6,9 5,9 6,2 25,8
Dutch French Italian Japanese Norwegian	5,981 6,287 14,711 24	6,909 11,121	15,3 6,9 5,9 6,2 25,8
Dutch French Italian Japanese Norwegian Panamanian Peruvian	5.981 6,287 14,711 24 6,963	6,909 11,121	15,3 6,9 5,9 6,2 25,8
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish	5,981 6,287 14,711 24	6,909 11,121 4,438 7,288	15,3 6,9 5,9 6,2 25,8 11,4 22,3
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish	5.981 6,287 14,711 24 6,963 15,072	6,909 11,121 4,438 7,288 6,889	15,3 6,9 5,9 6,2 25,8 11,4 22,3 6,8
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish	5.981 6,287 14,711 24 6,963	6,909 11,121 4,438 7,288	10,4 4,2 15,3 6,9 5,9 6,2 25,8 11,4 22,3 6,8 181,8
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States	5,981 6,287 14,711 24 6,963 15,072	11,121 4,438 7,288 6,889 97,409	15,3 6,9 5,9 6,2 25,8 11,4 22,3 6,8 181,8
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States	5.981 6,287 14,711 24 6,963 15,072	6,909 11,121 4,438 7,288 6,889	15,3 6,9 5,9 6,2 25,8 11,4 22,3 6,8
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States Total sgistered gross tonnage of commercial ships through the Canal:	5,981 6,287 14,711 24 6,963 15,072 84,400 224,538	11,121 4,438 7,288 6,889 97,409	11, 3 6, 9 5, 9 6, 2 25, 8 11, 4 22, 3 6, 8 181, 8
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States Total Brazilian.	5,981 6,287 14,711 24 6,963 15,072 84,400 224,538 6,872	6,909 11,121 4,438 7,288 6,889 97,409 264,295	10, 3 6, 8 5, 9 6, 2 25, 8 11, 4 22, 3 6, 8 181, 8
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States Total Brazilian Brazilian British	5,981 6,287 14,711 24 6,963 15,072 84,400 224,538 6,872 106,708	6,909 11,121 4,438 7,288 6,889 97,409 264,295	10, 3 6, 9 5, 9 6, 2 25, 8 11, 4 22, 3 6, 8 181, 8 488, 8 6, 8 286, 1
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States Total Begistered gross tonnage of commercial ships through the Canal: Brazilian British Chilean	5,981 6,287 14,711 24 6,963 15,072 84,400 224,538 6,872 106,708 9,096	6,909 11,121 4,438 7,288 6,889 97,409 264,295	13, 3 6, 9 5, 9 6, 2 25, 8 11, 4 22, 3 6, 8 181, 8 488, 8 286, 1 18, 8
Dutch French Italian Japanese Norwegian Panamanian Panamanian Spanish Swedish United States Total Begistered gross tonnage of commercial ships through the Canal: Brazilian British Chilean Danish	5,981 6,287 14,711 24 6,963 15,072 84,490 224,538 6,872 106,708 9,096 6,636	6,909 11,121 4,438 7,288 6,889 97,409 264,295 179,394 9,734	10, 3 6, 9 5, 9 6, 2 25, 8 11, 4 22, 3 6, 8 181, 8 286, 1 18, 8 6, 8
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States Total sgistered gross tonnage of commercial ships through the Canal: Brazilian British Chilean Danish Danish	5,981 6,287 14,711 24 6,963 15,072 84,490 224,538 6,872 106,708 9,096 6,636	6,909 11,121 4,438 7,288 6,889 97,409 264,295 179,394 9,734	10, 3 6, 8 5, 9 6, 2 25, 8 111, 4 22, 3 6, 8 181, 8 488, 8 286, 1 15, 8 6, 6 24, 0
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States Total segistered gross tonnage of commercial ships through the Canal: Brazilian British Chilean Danish Dutch French	5,981 6,287 14,711 24 6,963 15,072 84,400 224,538 6,872 106,708 9,096	6,909 11,121 4,438 7,288 6,889 97,409 264,295 179,394 9,734 6,944	15, 3 6, 2 5, 9 6, 2 25, 8 11, 4 22, 3 6, 8 181, 8 488, 8 6, 8 286, 1 18, 8 6, 6 24, 0 10, 8
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States Total segistered gross tonnage of commercial ships through the Canal: Brazilian British Chilean Danish Dutch French	5,981 6,287 14,711 24 6,963 15,072 84,400 224,538 6,872 106,708 9,096 6,636 17,123	6,909 11,121 4,438 7,288 6,889 97,409 264,295 179,394 9,734	15.3 6.9, 5.9 6.2 25.8 11.4 22.3 6.8 181.8 286.1 13.8 6.6 6.6 6.4 0.10, 8
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States Total egistered gross tonnage of commercial ships through the Canal: Brazilian British Chilean Danish Dutch French Italian	5,981 6,287 14,711 24 6,963 15,072 84,400 224,538 6,872 106,708 9,696 6,636 6,636 17,123	6,909 11,121 4,438 7,288 6,889 97,409 264,295 179,394 9,734 6,944	15,3 6,9,5,9 6,2 25,8 11,4 22,3 6,8 181,8 438,8 286,1 19,8 6,6 6,6 24,0 10,8
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States Total sgistered gross tonnage of commercial ships through the Canal: Brazilian British Chilean Danish Dutch French Italian Japanese	5.981 6.287 14.711 24 6.963 15.072 84,400 224,538 6.872 106,708 9.096 6.636 17,123	6,909 11,121 4,438 7,288 6,889 97,409 264,295 179,394 9,734 6,944 10,839	13.3 6.9.5 5.9.6 6.2 25.6 11.4 22.3 6.8 181.8
Dutch French Italian Japanese Norwegian Panamanian Panamanian Spanish Swedish United States Total egistered gross tonnage of commercial ships through the Canal: Brazilian British Chilean Danish Dutch French Italian Japanese Norwegian	5.981 6.287 14,711 24 6.963 15,072 84,400 224,538 6.872 106,708 9.096 6.636 17,123 10,603 10,023 21,758	6,909 11,121 4,438 7,288 6,889 97,409 264,295 179,394 9,734 6,944 10,839	10.3 6.9, 5.9 6.2 25.5 111, 4 22.3 181, 8 488, 8 286, 1 10.8 10.0 8, 0 10.0
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States Total sgistered gross tonnage of commercial ships through the Canal: Brazilian British Chilean Danish Chilean Danish Dutch French Italian Japanese Norwegian Japanese Norwegian Panamanian	5,981 6,287 14,711 24 6,963 15,072 81,400 224,538 6,872 106,708 9,096 6,636 17,123 10,020 21,758 21,758	6,909 11,121 4,438 7,288 6,889 97,409 264,295 179,394 9,734 6,944 10,839	15.3 6.9,5.9 6.2,25.8 11.4 22.3 6.8,8 181.8 438.8 6.8 286.1 11.8,8 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States Total egistered gross tonnage of commercial ships through the Canal: Brazilian British Chilean Danish Dutch French Italian Japanese Norwegian Panamanian	5,981 6,287 14,711 24 6,963 15,072 84,400 224,538 6,872 106,708 9,096 6,636 17,123 10,603 10,020 21,758 26 17,273	6,909 11,121 4,438 7,288 6,889 97,409 264,295 179,394 9,734 6,944 10,839	15.3 6.9,6.2 6.2,25.8 111,4 22,3 6.8,8 181.8 488,8 286,1 10.6 24,0 10.6 10.0 38,5 28,5
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States Total sgistered gross tonnage of commercial ships through the Canal: Brazilian British Chilean Danish Dutch French Italian Japanese Norwegian Panamanian Peruvian Panamanian Peruvian Spanish	5,981 6,287 14,711 24 6,963 15,072 81,400 224,538 6,872 106,708 9,096 6,636 17,123 10,020 21,758 21,758	6,909 11,121 4,438 7,288 6,889 97,409 264,295 179,394 9,734 6,944 10,839	13.3 6.9,5.9 6.2.25.8 11.4 22.3 6.8.8 181.8 438.8 6.8 286.1 10.6 10.0 38.5 28.5
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States Total egistered gross tonnage of commercial ships through the Canal: Brazilian British Chilean Danish Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Spanish Panamanian Peruvian Spanish	5.981 6.287 14,711 24 6.963 15,072 84,400 224,538 6.872 106,708 9,096 6,636 17,123 10,603 10,020 21,758 26 17,273 22,623	6,909 11,121 4,438 7,288 6,889 97,409 264,295 179,394 9,734 6,944 10,839	13.3 6.9,5.9 6.2.25.8 11.4 22.3 6.8.8 181.8 438.8 6.8 286.1 10.6 10.0 38.5 28.5
Dutch French Italian Japanese Norwegian Panamanian Peruvian Spanish Swedish United States Total egistered gross tonnage of commercial ships through the Canal: Brazilian British Chilean Danish Dutch French Italian Japanese Norwegian Panamanian Peruvian Panamanian Peruvian Spanish	5,981 6,287 14,711 24 6,963 15,072 84,400 224,538 6,872 106,708 9,096 6,636 17,123 10,603 10,020 21,758 26 17,273	6,909 11,121 4,438 7,288 6,889 97,409 264,295 179,394 9,734 6,944 10,839	15.3 6.9, 5.9 6.2 25.5, 5.9 111, 4 22, 3 6.8, 181, 8 488, 8 286, 1 113, 8 6.9 6.0 10, 0 10, 0 38, 5 28, 5

ltem.	Cristobal.	Balboa.	Total.
	Cristobai.	Daiboa.	10001.
Registered net tonnage of commercial ships, through the Canal: British	67,810	113,041	180,851
Brazilian	4,245	6,244	4,245 11,765
Chilean	5,521 4,222	0,244	4,222
Dutch	10,917	4,414	4,222 15,331
French [talian	6,406	7,136	7,136 6,406
Japanese	6,267		6,406 6,267
Norwegian	$\frac{13,216}{24}$	11,101	24,317 24
PanamanianPeruvian	9,160	5,455	14,615
Spanish	14,686	7,170	21,856 7,902
Swedish United States	84,414	7,902 97,476	181,890
Total	226,888	259,939	486,827
British	85,662	151,962	237,624
Chilean Danish	1,419 1,650	6,017	7,436
Dutch	233	9,900	1,650 10,133
French	1,048	9,859	10,907 35,133
Norwegian Peruvian	23.154 3,543	11,979 7,133	10.676
Spanish.		7,133 17,142	17,142 16,315
Swedish. United States.	98,845	16,315 129,619	228,464
Total	215,554	359,926	575,480
II S Navy destroyers	7		7
U. S. Navy fuel ship. U. S. Navy transport.	1		1
II S Novembrook		2	2
U. S. Army mine-planter Merchant shipa with coal and supplies for Army and Navy	5	·	1 5
Panama Canal tug	ı i		Î.
Total	14	4	18
Launch	1 7		1
Net tonnage of launch, Panama Canal measurement Total ocean-going abips transiting Canal	102	96	198
Total vessels transiting the Canal	103	96	199
Cargo on which no tolla were chargedtons. Commercial shipa passing through Canal without cargo, but not in ballast.	39,151	100	39,251
Net tonnage of above. Panama Canal measurement	9,623		9,623
Net tonage of above, Panama Canal measurement. Commercial ships through Caral in ballast.	71,694	38,869	33 110,563
Net tonnage of above. Panama Canal measurement	28	7	35
Total commercial ships without cargo, transiting Canal. Net tonnage of above, Panama Canal measurement	81,317	38,869	120,186
Motor ships through the Canal. Net tonnage of motor ships, Panama Canal measurement.	138	10,682	10,820
Carling ships through the Canal. Net tonnage of sailing ships, Panama Canal measurement	3	3	6
Net tonnage of sailing ships, Panama Canal measurement Tolls levied on laden ships through the Canal	\$203 128 90	3,261 \$288,292.85	3,298 \$491,421.75
Tolls levied on ships in ballast	01,000.00	27,985.68	79,852 23
Tolls on launches	8.40		8.40
Total tolls levied	\$255,003.85	\$316,278.53	\$571,282.38
Total ships entering port, including Canal transit	233 230	200 195	433 425
Total Ahips handled	637,103	395 527,356	858 1,164,459
Net registered tonnage of vessels clearing port	632,722	515,372	1,148,094
		1 049 798	2 312 553
Total for vessels entering and clearing	1,269,825 1,013,766	1,042,728 830,230 811,284	2,312,553 1,843,996
Registered gross tonnage of vessels clearing		811,284	1,820,353
Total registered gross tonnage of vessels entering and clearing	2,022,835	1,641,514	3,664,349
Vessels entering port, but not passing through the Canal		1	54
Net tonnage of above.	127.533	9,878	137,411
Gross tonnage of above	223,211	15,644	238.855
Vessels clearing port, but not passing through the Canal Net tonnage of above	111.304	9,938	121,242
Gross tonnage of above. Tessels passing through Canal, and handling passengers or cargo at	184.760	15,704	200,464
Vessels passing through Canal, and handling passengers or cargo at port entered	36	37	73
Net tonnage of above	79,336	63,497	142,833
Gross tonnage of above. Vessels passing through Canal, and handling passengers or cargo at port	132,122	109,648	241,770
eleared	. 37	34	71
Net tonnage of above. Gross tonnage of above.	79,440 121,085	53,695 93.506	133,135 214,591
WILLIAGE OF BOOKE,	121,000	33,000	, 417.00

Item.	Cristobal.	Baltos.	Total.
Transit cargo arriving tons.	644,072	592,164	1,236,236
Transit cargo clearedtons.	627,538	576,946	1,204,484
Local cargo arrivingtons.	23,527	17,569	41,090
Local cargo shipped tons.	2,881	488	3,369
Total local cargo bandledtons	26,408	18,057	44,465
Total local and transit cargo arrivingtons	667,599	609,733	1,277,332
Total local and transit cargo cleared tons tons	630,419	577,434	1.207,853
Cargo received by Receiving and Forwarding Agency of P. R. R tons	50,572	4,745	55,317
Total local and transit cargo cleared	31,235	856	32,091
Cargo rehandled by Receiving and Forwarding Agency of P. R. R tons	788	2,565	3,359
Total cargo handled by Receiving and Forwarding Agency of			
P. R. R. fons	82.595	8,166	90, 761
P. R. R. tons. Cargo stevedored, included in above. tons.	27 701	462	28, 163
Commercial vessels other than P. R. R. supplied with bunker coal	94	16	110
Coal supplied to commercial vessels other than Panama Railroadtons	29,014	4,657	\$3.671
Panama Railroad vessel supplied with bunker coal	1		1
Coal supplied Panama Railroad Steamship Line	30		30
Coal supplied U. S. Navy vessels		306	300
U. S. Army vessels supplied with coal.	5	1	6
Coal supplied to U. S. Army vesselstons	100	21	121
Total vessels supplied with coal	95	18	113
Total coal furnished to vessels. tons. Coal supplied Panama Railroad departments tons.	29 144	4.984	34,128
Coal supplied Panama Railroad departmentstons.	838	80	918
Coal supplied Army, excepting vesselstons	133 1,501	641	133 2,242
Coal supplied The Panama Canal tons. Coal supplied individuals and companies tons.	339	041	339
Total coal furnishedtons	32.055	5,705	37,760
Coal received during November. tons Coal on hand, December 1 tons	36,363 42,011	24,040 12,204	60,403 54,215
Vessels supplied with water.	155	82	237
Water sold to ships	7,092,247	2.379.500	9.471.747
Vessels dry docked	5	6	11
Commercial vessels furnished commissary supplies.	133	78	211
Panama Railroad vessels furnished commissary supplies. Other U. S. Government vessels furnished commissary supplies.	7 20	1 12	8 32
other C. S. Government vessels furnished commissary supplies	20	12	02
Total vessels furnished commissary supplies	160	91	251
Commissary sales to commercial vessels:			
Ice	\$1,383 36	\$544 21	\$1.927.57
Wholesale groceries. Wholesale cold storage.	13,649.42 31,815.57	3,898.47 12,903.47	17,547.89 44,719.04
Laundry	2,666 06	.90	2,666.96
Miscellaneous	2,398.63	909.73	3,308.30
Total	\$51,913 04	\$18.256.78	\$70,169.82
Total Commissary sales to Panama Railroad vessels:	e01.510 U±	V10.200.70	\$10,100.0
LVG	\$257.40	\$12.60	\$270.00
Wholesale groceries Wholesale cold storage	1,724 95	95.22	1,820.17
Laundry	5,282.34 494.42	158.49	5,440.83 494.42
Miscellaneous	462.78	2.28	465.06
Total	\$8,221 89	\$268.59	88,490.48
Ice	\$129.67	\$70.79	\$200.46
Wholesale groveries	1,281.50	1,118 22 4,283.81	2,399.72 14,255. 2 7
Laundry	9,971 46 356.67	4,200.01	356.67
Miscellaneous	368-10	12.14	380.24
Total	\$12,107 49	\$5,484.96	\$17,592.30
Total commissary sales to vessels. Fuel oil issued to U. S. Navy	\$72,242.33 205	\$24.010.33 1,148	\$96,252.66 1,353
Fuel oil issued to U. S. Navy	420	54	474
Fuel oil issued to Canal departments barrels	9,358	21,613	30,971
Fuel oil issued to Canal departments barrels. Other sales, issues, and consumption at plant. barrels.	267	172	439
Total furnished from Canal tanksbarrels	10.250	22,987	33,237
Fuel oil on hand December 1 barrels	10,250 53,795	88,659	142.454
Other oil pumped barrels	180.558	13,768	142,454 194,326 1,490
Diesel oil on hand December 1		1,499	1,490
Passengers arriving, including transit passengers:	0.780	4 000	2 000
First cabinOther than first cabin	2,578 1,531	1,329 1,024	3,9 9 7 2,5 5 5
	1,001	1,021	2,000
Total	4,109	2,353	6,462
Passengers departing, including transit passengers:	0 100	1,192	9 240
First aship		1.192	8,360
rust cauld	1 320	972	2.209
Other than first cabin	2,168 1,320	972	2,292
rust capili	3.488	972 2,164 4,517	2,292 5,652 12,114

ltem.	Cristobal.	Balboa.	Total.
Passengers disembarking: First cabin.		303	2,006
Other than first cabin.	1,044	150 453	3,200
Total. Pasengers embarking.		166	-,
First cabin	1,294 833	98	1,460
Total	2,127	264	2,391
Seamen shipped		112 93	323 234
Seamen desertedSeamen lodged, subsisted, and repatriated	12	1 26	13 39
Total seamen handled	377	232	609
Total amount earned Deductions approved by Deputy Shipping Commissioners	\$7,434.63 559.12	\$9,060.75 1,773.15	\$16,495.38 2,332.27
Balance due seamea	\$6,875.51 1,334.13	7,287,60 5,817.06	\$14,163.11 7,151.18
Received on deposit for seamen	5,541.38	*1,703.06	7,244.44
Crews shipped. Crews paid off.	2		2
Shipping articles written Marine notes of protest noted.		4	27

^{*}Includes \$232.52 mmigration deposit.

LOCK OPERATION.

Lockages of commercial vessels were made during the month as follows:

	Numb	er of loc	kages.	Numb	er of ve	esels.
	North.	South.	Total.	North.	South.	Total.
Gatun	89	83	172	92	92	184
Pedro Miguel Miraflores.	92 92	87 83	179 175	92 92	92 92	184 184

Lockages of Army and Navy vessels, vessels operated by The Panama Canal, and of commercial vessels, are included in the following summary of all lockages during the month:

Lockages.	Gatun.	Pedro Miguel.	Miraflores.
Commercial lockages. Noncommercial, United States Army and Navy. Capal equipment.	172 11 9	179 11 21	175 11 17
Total	. 192	211	203
Commercial vessels. Noncommercial, United States Army and Navy and Canal	184 45	184 72	184 69
Total	229	256	253

Water consumed for all lockages amounted to 1,556,010,000 cubic feet, that used at Pedro Miguel becoming available for second use at Miraflores Locks. Consumption of water by the locks during the month was as follows:

	Gatun.	Pedro Miguel.	Miraflores.
Lockage. Leakage Maintenance.	20,000,000	Cubic feet. 704,160,000 35,420,000 39,970,000	Cubic feet. 629,880,000 15,000,000 57,810,000
Total	881,850,000	779,550,000	702,690,000

METEOROLOGY.

Rainfall during the month ranged from 3.50 inches at Gamboa to 15.35 inches at the Quipo station. The greatest precipitation recorded in any one day was 2.71 inches, at the Pedro Miguel station on November 30.

Three seismic disturbances were recorded, 2 on the 1st, and 1 on the 10th. All were of close origin, the quake on the 1st being the only one generally felt. All were

comparatively small movements.

The Chagres River discharge at Alhajuela was 47 per cent below the 18-year November average, or 2,455 c. f. s. against a mean of 4,649 c. f. s. The maximum momentary discharge for November was 23,800 c. f. s. at elevation 101.30 on the 5th and the minimum momentary discharge was 1,503 c. f. s. at elevation 91.83 on the 18th. There was one freshet in the Chagres River during the month with a rise of more than 5 feet at Alhajuela.

The elevation of Gatun Lakeson November 30 was 86.06, as compared with 86.30

at the close of the prior month.

ELECTRICAL DIVISION.

Gatun hydroelectric station—The net output of the hydroelectric station for the month was 5,128,111 K.W. H. The computed water consumption was 3,702,970,000 cubic feet.

Miraflores steam plant—The net output of the steam plant was minus 670,100

K. W. H. and the oil consumption was 2,124.91 barrels.

Total power output—The total power output for both generating stations was 5,128,000 K. W. H., and the total amount of power distributed to feeders by substations and generating plants was 4,370,432 K. W. H., representing an energy loss

of 14.77 per cent.

Transmission line—There was one interruption to transmission line service during the month. Line No. 1 was out at 12.08 â. m. on the 19th, caused by a train wreck at Diablo cabin, demolishing tower 45-1 and breaking line No. 2, interrupting service at Cristobal, 2½ minutes; Darien, 10 minutes, Gamboa, 3 minutes; and Balboa, 2½

minutes.

Marine work—Repairs and additions to electric equipment, embracing 24 items were made at Cristobal on the following vessels: San Juan, Allianca, Wakiki, launch Sylph II, Princess Matoika, tug Engineer, West Katan, Ulysses, Balboa, Middlebury, C-44, C-45, Colon, Aculeo, and H. C. Hansen. Work was in progress at the end of the month on the Ottawa, Delft, Middlebury, rock crusher Vulcan, tug Taverilla, and Caribbean. At Balboa, electrical work was done on the following vessels: Cristobal, barge No. 29, cruiser Lima, Sewickley, Fassett, Bunham, Santa Helena, dredge No. 84, Colindo, supply boat No. 2, tug Mirafiores, Lompoc, Paiua, dredge Corozal, tug Cocoli, destroyer Shubrick, Dockton, Lake Maurepas, Cyrus W. Field, tug Rimac, tug Nepen, Ansaldo San Giorgio, Donastia, Coalinga, Tanka, Faulk, East Wind, Jamaica, Achilles, Salazar, and tug Empire.

SHOPS, FOUNDRY, AND DRY DOCK WORK.

Work on the *Cristobal* was carried forward during the month with all the available force. The machinery installation was well advanced; a large portion of the remaining steel work was placed; a portion of the decking laid, and the woodwork for the

passenger accommodations begun.

Repairs to the *Botham* were completed; these included fitting of a new rudderpost, the lower portion of her sternpost, and the after 25 feet of her keel, together with the manufacture and installation of a new propeller; the general overhaul of her main engines and boilers, the straightening and welding of her rudder stock, and the manufacture of new steering gear. The repairs to the stern of this vessel required very large timbers and would have been delayed for several weeks had it not been for the development of the native lumber industry, which had placed the Mechanical Division in a position to secure excellent timbers on short notice. For the rudderpost a stick of guayacan 18 by 24 inches by 37 feet long was used; for the sternpost a piece of almendra 22 inches by 36 inches by 22 feet long, and for the keel a piece of amargo 18 inches by 22 inches by 40 feet long.

amargo 18 inches by 22 inches by 40 feet long.

The Peruvian cruiser *Lima* has remained at the plant, and during the month a general overhaul was requested and entered upon. This includes, among other things, the removal of boilers and their partial rebuilding, and the renewal of floors and

reverse bars under the boiler room.

The Paita stopped at the Balboa plant for running repairs during the month after a voyage to Chile. This is the first ex-German ship repaired at the Balboa plant to return to the Canal Zone. The officers of the vessel reported the ship to be very satisfactory thus far.

Additional stiffening was fitted between the frames of the Achilles, either side of the keel, in the deep tanks, and numerous rivets were redriven in these tanks and the forepeak, excessive working having been found to be taking place in these compart-

ments.

The first sand crane for the gravel plant at Gamboa was rebuilt and shipped for erection. Both of the gravel cranes were recently blown over and wrecked by a wind

storm, and the construction of the first crane was carried forward as emergency work on account of the necessity of again providing means for obtaining sand and gravel

for building operations.

At the Cristobal shops the following vessels arrived for repair: Tug Tavernilla, Lake Graphite, Balboa, Memphis, Jamaica, West Katan, Dockton, Mecklenburg, Parismina, Brookland, Laura C. Hall, City of Para, Mantaro, Middlebury, Geo. W. Goethals, Ulysses, Caribbean, Culebra, Allianca, O. H. Ernst, Colon, Alda, Gualamola, Peru, Botsford, barge No. 56, Henry T. Scott, Carrillo, Ottawa, Puerto Rico, Bologna, Namecki, San Juan, A. G. Forse, launch Capron, Santa Leonora, Princess Matoika, Lake Fanar, Salvador, Urubamba, Himoto, Chatauqua, Osakis, Tollamock, Chile, Nokatay, Aviles, Tanka, Orcus, Aculeo, Senator, Wakiki, C-35, C-44, C-45, C-47, C-49, and rock breaker Vulcan.

Of the above the following were in dry dock during the month: Vulcan, barge No.

56, Caribbean, San Juan, and Mecklenburg.

At the Cristobal shops 147 individual and company job orders were issued during the month, one of which was for a naval vessel. Of the remaining 146, 62 covered repairs to ships making this port or in transit of the Canal, exclusive of Panama Rail-

road ships.

Work was performed at the Balboa shops during the month on the following vessels: Cristobal, Colinda, Bonham, Fassett, Donostia, Sewickley, Lompoc, West Raritans, Achilles, Paita, Coalinga, Lake Maurepas, Gorredijk, La Habra, Ansaldo San Giorgio II, Deva, Lake Faulk, Tanka, Ayurnoca, East Wind, Santa Clara, Salazar, Crisfield, cruiser Lima, U. S. S. Shubrick, Lamb, tug Nepen, tug Rimac, Laura C. Hall, Santa Elena, Orotina, H. C. Hansen, Dockton, Ansaldo San Giorgio I, Sylph, Almirante, and dredge Corozal.

Of the above, the following were in dry dock during the month: Dredge No. 84, supply Boat No. 2, tug Miraflores, steamships Bonham, Coalinga, and Achilles.

Patterns made and foundry output, compared with October, were as follows:

	November.		October.	
Iron	Patterns. 58	Pounds. 98,296 29,691	Patterns. 59 19	Pounds. 134,067½ 24,093

Equipment was hostled as follows: Locomotives, 1,523; cranes, 208; making a total of 1,731. One hundred and ninety-six shop and 1,484 field repairs were made on cars, 825 freight cars were packed, and 825 passenger coaches were packed, cleaned, oiled, and inspected.

BUILDING CONSTRUCTION.

Erection of the Puerto Obaldia radio station was 95 per cent completed.

The office building for the Central and South American Telegraph Company at Balboa was completed.

Moving three type-18 houses from Las Cascadas to Balboa was 12 per cent completed. Moving seven type-15 houses and one type-7 house were 15 per cent completed.

Terminal construction—In the reconstruction of the Royal Mail pier, Colon, the placing of concrete floor slab was completed, and the erection of steel roof trusses was 40 per cent completed.

Pier No. 6, Cristobal, was completed during the month.

DREDGING DIVISION.

The total excavation by dredge during the month of November was 407,835 cubic yards, as follows:

	Classifi	ed as-	Character	Stations.	Equipment
Cubic yards.	Earth.	Rock.	of work.	Stations.	Equipment
a 82,900	52,900	30,000	Maintenance	Cucaracha Slide. 1806-00 to 1821-00	Caecadaa
a 7,350	4,850	2,500	Maintenance	1774-00 to 1778-00 W East Culebra Slide.	Cascadas.
a124.085	93,085	31,000	Maintenance	1774-00 to 1790-00 E Barge Repair Slide.	Paraiso.
a 3,500	3,500		Maintenance	1740-00 to 1741-00 W	Paraiso.
b180,000 b 5,000 b 5,000	180,000 5,000 5,000		Maintenance Original Maintenance	2153-00 to 2189-50 E 2153-00 to 2189-50 E 2203-30 to 2202-50	No. 86. No. 86. No. 83.
407,835	344,335	63,500	Total for month		

The following disposition was made of the excavated material: Five thousand cubic yards were dumped in San Juan fill; 185,000 cubic yards in Rio Grande East

Division: and 217,835 cubic yards in Gatun Lake, north of Gamboa.

Slide movement-Cucaracha slide showed a slight general movement from the 1st to the 10th of the month. During the remainder of the month there was some small movement near the top of the slide. This latter movement brought no additional material into the Canal area. At the Barge Repair Slide the surface movement continued throughout the month. The effectiveness of the channel was not threatened at any time.

The excavation remaining to be done in the Canal prism on December 1 was 167,400 cubic yards of earth and rock, and from the Cristobal coaling station and Balboa

inner harbor, 2,100 and 167,800 cubic yards, respectively.

MUNICIPAL ENGINEERING DIVISION.

In grading and filling for the new silver townsite, Mount Hope, grading was 95 per cent completed; water lines were 15 per cent completed; streets and roads, 5 per cent completed; sanitary sewers, 50 per cent completed, and storm sewers, 65 per cent

The sewer from North Avenue, Panama, to the beach was 75 per cent completed. Water pumped in the northern district amounted to 231,743,000 gallons, and in the southern district to 569,968,620 gallons, making a total of 801,711,620 gallons, as compared with 806,089,030 gallons in October. Colon was furnished with 56,916,-800 gallons, Panama with 79,706,000 gallons, and 9,471,747 gallons were sold to 237 ships.

The incinerator at Gavilan Island burned 2,175 tons of garbage and 53 dead ani-

WORKING FORCE. Effective November 19, 1919.

Department or Division.	Gold.	Silver.	Total.
peration and Maintenance:			
Office	41	54	95
Building Division	328	1.585	1.913
Electrical Division	246	306	552
Municipal Engineering Division	120	1.586	1.706
Lock Operation	162	596	758
Dredging Division.	148	905	1,053
Mechanical Division.	979	1,907	2,880
Marine Division	140	398	538
Fortifications	70	210	280
Total	2,234	7,547	9.78
upply Department:	-,201	1,011	0,00
Quartermaster	160	1.955	2,118
Subsistence	28	401	429
Commissary	214	1,560	1,774
Cattle Industry-Plantations.	29	668	69
ecounting	262	11	273
lealth	242	958	1,20
xecutive	542	284	826
anama Railroad:		-01	-
Superintendent	57	558	61
Transportation	128	198	320
Receiving and Forwarding Agent.	76	1.632	1,70
Coaling Stations	86	955	1,041
upply—Hotel Washington	5	93	98
Constant	4 009	16 000	90.00
Grand total	4,063	16,820	20,88

The total gold force at work on November 19, was 20 more than the 4,043 at work on October 22, and the silver force was 596 more than the 16,224 then at work. As compared with the gold force for the corresponding month of last year, reported as of November 20, 1918, the gold force was an increase of 851 over the 3,212 at work at that date, and the silver force a decrease of 1,157 over the 17,977 of that day. The occupation of quarters on November 30 was as follows:

Occupants.	Men.	Women.	Children.	Total.
Americans. Europeans. West Indians	188	2,124 44 1,957	2,514 60 3,751	8,078 292 10,802
Fotal	8,704	4,143	6,325	19,172

PUBLIC HEALTH.

Seventy-three cases of malaria were reported during the month of November as compared with 60 cases during the month of October. No deaths occurred from malaria. Thirteen cases of influenza were admitted but there were no deaths from Influenza.

There were 5 cases of pneumonia and 1 death, as compared with 4 cases and 1 death during October. Typhoid fever caused 4 admissions and no deaths, as compared with 3 admissions and 1 death during the preceding month. One case of smallpox was admitted, a hospital physician on duty in the isolation ward. He is now the only smallpox patient in the hospital, all others having been discharged well.

One case of leprosy was admitted to the colony at Palo Seco.

RECEIPTS AND SALES OF MATERIAL AND SUPPLIES.

The value of material received during the month on United States requisitions was \$452,243.12, as compared with \$471,902.50 in October. Of that received in November, \$412,555.74 was chargeable to operation and maintenance; \$33,499.17 to construction and equipment; and \$6,188.21 to miscellaneous departments. Isthmian cash sales from storehouses and obsolete store amounted to \$48,271.69, of which \$29,961.21, was for stock, \$2,091.42 for scrap, and \$16,219.06 for obsolete and second-hand material.

There were no important sales made in the United States during the month.

The total sales of material from storehouses to steamships, for the month, including fuel oil, but excluding sales by the commissary division, which amounted to \$71,284.20 were \$17,350.07. Sales of commissary supplies to all purchasers for the month aggregated \$859,316.75, made up as follows: To steamships, other than United States Government vessels and those of the Panania Railroad Steamship Line, \$71,284.20; to The Panania Canal, \$106,132.33; to the United States Government, including sales to the Army and Navy, \$113,913.56; to individuals and companies, principally through charge accounts in the retail stores, \$25,271.05; to the Panama Railroad, including its steamships and the Hotel Washington, \$21,846.03, and to Individuals purchasing with coupons, \$520,869.58.

FINANCIAL RECEIPTS AND EXPENDITURES.

The cash balance in Canal appropriations on November 30, exclusive of fortifications, was \$15,215,116.76; the balance in fortifications was \$8,331,091.88. Payments from appropriations by the Disbursing Clerk in Washington amounted to \$760,814.77, and by the Paymaster on the Isthmus to \$1,564,138.64. Purchases of commissary books from the Panama Railroad Company amounted to \$352,580.13. Collections of tolls totaled \$571,282.38. Deposits of \$241,338.75 were made with the Assistant Treasurer of the United States to be applied on payment of tolls and other charges against vessels using the Canal. The total Panama Canal collections on the Isthmus were \$1,891,883.32, and collections by the Disbursing Clerk, Washington, \$25,963.82. Receipts from the Canal Zone and miscellaneous funds were \$168,893.04, and disbursements from the same source amounted to \$157,170.85. November payrolls on the Isthmus aggregated \$1,115,780.92, as compared with \$1,249,718.06 for October, a difference of \$93,937.14.

Respectfully,

JAY J. MORROW,

Acting Governor.

Freight Classification.

Effective December 18, 1919.

The Panama Railroad Steamship Line has announced the following changes in Supplement No. 2 to freight classification and Tariff No. 30, class and commodity rates from New York to Central American and Mexican ports:

CHANGES AND ADDITIONS.

Item 21. (Amends Item 1.)	
Fuse, safety, from Class D to	1
Roofing, asbestos covered metal	4
Milk, powdered	5

LIGHTERAGE CHARGES, AMAPALA, HONDURAS.

Item 22. (Amends Item 18.)

On all cargo for Amapala, Honduras, lighterage charges at rate of \$2 per ton weight or measurement must be prepaid in addition to freight charges

Distribution Among Ports of Cargo Passing Through the Canal from Pacific to Atlantic, November, 1919.

JatoT	3,106 8,0,173 8,0,173 8,0,173 1,147 1,147 1,133 1,103
Wilmington,	9,700
West Hartle- pool, Eng.	2,005
Santander, Spain.	2,650
Queenstown, Itelsnd.	8555 8555 7793 7793
Philadelphia Pa.	6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6
Pasages, Spain.	4 Ins
New York,	8,050 8,050 7,069 8,808 8,808 7,500 7,500 15,657
Newport News, Va.	23 8 7 80 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
New Orleans La.	66
London, England.	13,030 2,006 2,006 3,058 3,058 6,291 11,480 7,018
Liverpool, England,	5,697
Las Palmas, Canary Isla	4,709
Habana, Cuba.	2.263
Gothenburg, Sweden.	5, 265
Genos, Italy.	55.329
Falmouth, England	9-173
Cristobal, Canal Zone	7, 1, 44, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Charleston, S. C.	5,770
Bilbao, Spain.	3.5607
Вегдеп, Могway.	2.2
Baltimore, Md.	0007
Amsterdam, Netherlands.	006:6
Alexandria, Egypt.	
From—	Aberdeen, Wash, Adelaide, Australia, Adelaide, Australia, Autofagasta, Chile, Autoriand, Bellingham, Wash, Burnaventura, Colombia, Galeta Burnaventura, Colombia, Galeta Burnaventura, Colombia, Galeta Burnaventura, Chile, Callao, Peru, Champero, Gustermala, Chemainus, B. C. Dunedin, New Zealand, Chemainus, B. C. Gusayaquil, Ecuador, Hawaii, Hoquiam, Wash, B. C. Gusayaquil, Ecuador, Chonolulu, Hawaii, Hoquiam, Wash, Ecuador, Manta, Ecuador, Manta, Ecuador, Meillones, Chile, Fisagua, Chila, Salaneghai, Chile, Taletal, Wash, Taletal, Wash, Taletal, Chile, Taletal, Chile, Taletal, Chile, Coppilla, Chile, Cancouver, B. C. Varant Island, Varant Island, Varant Island, Washu Island, Washu Island, Mantalia, Chile, Varant Island, Varant Island, Washu Island, Washu Island, Washu Island, Mantalia, Chile, Washu Island, Washu Island, Washu Island, Washu Hangton, New Zealand, Meilington,

Distribution Among Ports of Cargo Passing Through the Canal from Atlantic to Facific, November, 1919.

	.lstoT	16,799 1,659 1,659 9,294 9,294 1,739	215,554
	Wellington, Mew Zealand	22.5	4.770215.
	Valparaiso, Chile,	3,414	032
	Tumaco, Colombia.	600	2,19618.
	Tocopilla, Chile,	000,6	250 9,000 2,
	Talcahuano, Chile,	3,250	3,250
	Shanghai, China.	6,1192	6,1923,
	Seattle,	7000	700
	San Francis- co, Cal.	3,200 1,650 1,713 5,223 1,439 4,200	17,424
	Salaverry, Peru,	3,110	3,110
	Pisagua, Chile.	9 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	
	Paita, Peru.	2,028	2,028
	Mollendo, Peru.	846	846
	Malabriga, Peru,	2,480	2,480
	Lyttleton, New Zealand	7,834	7,834
	Kobe, Japan,	4,000	4,000
	Honolulu, Hawaii.	7,035	31,995
	tasania.	7,099	2,000
	Guayaquil, Lenador.	990 990 233 233	1,674
	Freemantle, Australia,	6,900	13,792
	Coronel, Chile.	2,820	5,850
	Champerico, Guatemala.	1,780	1,780
	Callao, Peru.	669 33.814 57.709	,237
	Buenaven- tura, Col.	1 24 Cd	246 16
	Ralboa, Canal Zone.	140	24,041
1	Auckland, New Zealand	12, 166	1 9
	Antofagasta, Chile.	88 88 88 88 88 88 88 88 88 88 88 88 88	1,885,1
	Pron-	Baltimore, Md. Copenhagen, Denmark Cristobal, C. Z. Curacao, Island Genoa, Italy Glasgow, Sootland Glasgow, Sootland Glasgow, Cuba Glasgow, Sootland Mobile Alagand Mobile Alagand Mobile Alagand Mobile Vis, N. Y. Norfolk, Va. Norfolk, Va. Norfolk, Va. Puerto Lobos, Mexico Sabine, Tex. Sabine, Tex. Tampico, Mexico	Total

Week ending at Midnight, January 10, 1920. MOVEMENT'S OF OCEAN VESSELS.

THROUGH THE CANAL -- ATLANTIC TO PACIFIC.

	Canal	Net	2,853 622 11,725 741 4,015 1,611 1,611 1,611 4,738 4,798 4,714	3,277 2,610 2,610 4,166 4,166 1,789 1,789 1,789 1,1789 6,694 6,694 2,244
	PanamaCana tonnage	Gross	7,197 7,198 7,198 7,198 7,198 3,999 8,623 6,623 6,623 6,745 7,441	4 627 3 27 3 27 3 600 7 390 2 61 000 7 390 2 61 000 7 300 5 827 4 11 10 6 820 2 90 1 382 1 2 820 5 820 4 278 2 24 4 4 111 35 820 5 820 4 278 2 24 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	67.0	Tons		10,000 1,762 1,762 300 1,290 11,290 11,523 5,628 5,628 12,000 12,000
		Cargo	General 350 General 5,982 Ceneral 5,982 Crude naphtha 10,300 General 7,500	Crude oil 19,000 General 1,762 General 7,943 Coal 7,943 General 1,290 General 2,300 General 2,300 General 2,300 General 2,500 General 11,623 Cotton and iron 5,628 General 12,000
		For	Callao Buenaventura. Guque. San Francisco. Valparaiso Jum San Diego San Diego San Diego San Diego Caleta Buena San Francisco. Tocopilla. Melillones Chile	fquique Antofagasta Antofagasta Valparaiso Paita Paita Parl Harbor. Shanghai Iquique Iquique Iquique Iquique Lyttleton Lyttleton Mejillones Wellingtou Valparaiso
		From	Cristobal Cristobal Cristobal New York New York Liverpool New York New York New York New York New York Bathinore Bathinore Bathinore Norfolk Norfolk Norfolk Norfolk	San Juan Newport News Pito. Lobos. Pito. Lobos. Cristobal Bordeaux Cristobal Norfolk Norfolk Cristobal Norfolk Norfol
	Salt	water	20.0 20.0 20.0 20.0 20.0 20.0 20.0 11.0 11	223.3 203.3 203.3
PACIFIC		Beam	48446644666 648466666666666666666666666	0.000000000000000000000000000000000000
TIC TO		Length Beam	380.0 220.0 251.0 251.0 400.0 338.1 3340.0 310.0 30.0 3	3354 0 3354 0 3354 0 3355 0 355 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
THROUGH THE CANAL ATLANTIC TO PACIFIC		Line	Peruvian Line Pacific Steam Navigation Co. Uniced States Shipping Board British Tanker Company. Pacific Steam Navigation Co. United States Navy. United States Navy. United States Shipping Board. Wither & Co. United States Shipping Board. With Crace & Co. Bruusgaard Kiostaruds.	Crowell & Thurlow Christian Haulund Union Oil Co. South American Steamship Line French Line John Sloman. United States Shipping Board Andrew Weir & Co. United States Shipping Board Pacific Steam Navigation Co. United States Shipping Board United States Shipping Board Colombinan Maritume Co. United States Shipping Board Wippon Yusen Kabanshiki Kaisha Rederal Statem Navigation Co. United States Shipping Board United States Shipping Board United States Shipping Board Russian Volunteer Fleet Ass D. Peruvian Line
		Nationality	Peruvian British British British British British Norwezian American American American American American American American American Norwezian Norwezian Norwezian	American Norwegan Norwegan Norwegan Norwegan Chilean Chilean Chilean American British American American American American Saritish American Saritish American British
	Cleared for sea	Hour	7 10 10 10 10 10 10 10 10 10 10 10 10 10	1 1 1 1 1 1 1 1 1 1
-	tt	TuoH	13. 25 14. 30 14. 30 15. 52 17. 33 10. 17 17. 33 17. 35 17. 35 17	18.46 19.55 19.55 19.55 11.6 19.55 11.6 19.55 11.6 19.55 11.6 19.55 11.6 19.55
	Completed	Day	4444444000000000000000000000000000000	6 6 18. 6 6 18. 6 6 19. 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
- 1	75	TuoH.	6.14 6.14 6.12 6.12 6.12 6.12 6.12 6.22 6.22 6.23 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.	8.35 11.00 11.00 11.00 10.00 10.00 13.00 13.00 10.00 1
	Entered Canal	Day	4444446666666	000000000000000000000000000000000000000
	Arrived at port	TuoH	20.05 20.05	6.55 10.37 21.30 21.30 7.25 7.25 11.43 11.43 11.43 11.63 11.43 11.
	Arrived at port	Day	0-00044440000000	300000000000000000000000000000000000000
		digo	Mantaro Jamaica Jamaica Jamaica British lales Bogota Unita Gillis (a) Tingey (a) Tingey (a) Tingey (b) Materner Santa Olivia Santa Olivia	Jones. Basis. Los Angeles. Aysen. Los Angeles. Aysen. Eleins (b) Cansumset. Luceric. Luceric. Luceric. Luceric. Ashland County Ashland County Ashland County Against. Cover. Kansana. Andrew Jackson Against. Cover. Sussex. Coveranhamook

1,023 2,244 4,322 4,075 1,474 1,839 5,102	4,755 11,795 11,795 11,795 12,116 12,116 13,975 14,116 11,	71,850			aypte. 3. sica				
1,582 4,278 5,854 5,662 2,563 7,41 6,934	6,249 6,249 6,236 6,236 11,365 11,365 5,694 5,773 3,173 9,446	general. (i) 1,771,856		For.	San Juan. Cartagena. Blucfelds. Blucfelds. Blucfelds. Harte and waypta Harte and waypota. Cartagena. Cartagena. New York and Jamaica. New York and Haitl.			1800.	
1,175 (i) 6,600 7,013 1,203 3,186 8,100		d genera			San Juan. Cartagena. Cartagena. Buchelds. Bluefields. Bluefields and waypon New York and Ja Sartagena. New York and Ja New York and Ja New York and Ja			Valparaiso. San Francisco.	
General General General Flour Lumber General Nitrate	Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Four and state Nitrate Nitrate Notate Notate Cores Notate Nitrate Cour Cour Cour Nitrate Cou	Lumbertrate. sugar. and							
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Cristobal Cristobal Amsterdam. New York Nipe, Cuba Cristobal Matanzas	Cristobal. Copenhagen. Wilmington Wilmington Waw York Baltimore. Santander. Liverpool. W. Hartlepool Queenstown. Raw York Hamburg Cristobal Genoa. Cristobal Grafeston. Hamp. Kaw York Cristobal Grafeston. Hamp. Kaw York Cristobal Grafeston. Hamp. Hamp. Hamp.	30.0 16.0 Port Angeles Antilla, Cuba Lumber 100 Lumber 546.013 ft. steel inzets 95. (h) Nitrate sugar, and	*DEPARTURES	Line.	French Government, Panama Railroad Cattle Industry, United States Shipping Board, United States Shipping Board, United States Shipping Board, United Fruit Co. French International Co. United Fruit Co. United Fruit Co. United Fruit Co. Fasten Railroad Steamship Line, Panama Railroad Steamship Line,		DEPARTURES.	Toyo Kisen KaishaRolph Navigation and Coal Co	n 12 are postm
uil iso ng	Zolosa. Fe	ngeles			French Panan United Royal United United French United United Panan Panan				ter than
Guayaquil. Callao. Valparaiso. Tacoma. Scattle. Bilenaventura. Iquique. Hongkong.	Balboa Galeta Colosa. Galeta Colosa. Galeta Buena. Galeta Buena. Galeta Buena. San Diego. Valparaiso. Valparaiso. Valparaiso. I quique. 1 acona. 1 acona. 1 acona. 1 acona. 2 an fractico. Antofigasta. Antofigasta. Antofigasta. Antofila. Sydney. Manilovas.	0 Port Angeles 546.013 ft., ste		els.	nt. herine C. Gorgas			Seiyo MaruStorm King (b)	honra grea
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n Co Board. S. Co. Board.	Board. Board. Board. Holm. Board. Co	M. S. Co 2	-		Jan Jan Jan Jan Jan Jan Jan Jan Jan	OF BALBOA		Jan Jan	on the
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9 6 02 46 10 22 46 17 43 8 13 13 13 13 13 13 13 13 13 13 13 13 13	88 19.00		13	Line.	United States Shipping Board. United Fruit Co. Fruit Co. Royal Mail Steam Parket Co. United Fruit Co. United Fruit Co. W. Wilbelmsen. Panama Railroad Steauship Line.		ALB.	gation and (
4 16.25 5 16.22 5 20.10 5 21.07 7 14.50 7 16.33	7 16 10 7 19 45 7 19 45 7 19 6 10 7 19 6 10 8 15 16 8 17 10 8 17 10 8 17 10 9 16 43 10 15 57 10 15 57 10 11 10 1	10 23.10 1	*ARRIVALB.		United States Shippin United Fruit Co. United Fruit Co. Royal Mail Steam Pa United Fruit Co. United Fruit Co. W. Wilhelmsen. Panama Railroad Ste.		*ARRIVALS	tolph Navig	the Canal.
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		lier. (a						Sto	r than s
Cauca Ucayali Delft Gaffney Clodia. Balboa Brookland Editor	Graham Graham Lake Glasco Santa Tecla. Santa Tecla. Alfonso Perez Jason (e). Orcoma. Rashington (d) Rouffach. Rouffach. Rouffach. Aysha Maru. Newport. Corvus. Ayshara. Ayshara. Ayshara. Ayshara. Ayshara.	Belen Quezada e		Date.	January 3. January 5. January 5. January 7. January 7. January 8. January 8.			January 6.	*Other

Crew of Three Blown to Sea.

The steamship Lake Lesa arrived at the Canal on January 9, on her way from Philadelphia to Iquique and discharged at Balboa the master and crew of 2 of the auxiliary yacht Rosina, whom she had picked up at sea in latitude 32° 50′ North, and longitude 75° 18′ West, about 200 miles off Cape Fear after the Rosina had been drifting nearly four days without a rudder and was about to sink.

The Rosina is an auxiliary schooner yacht, 29 gross tons, 51 feet in length by 17.4 feet beam and 6.6 feet depth. She was filling rapidly at the time the crew was rescued by the Lake Lesa and as she was dangerous to navigate, was deserted. The crew are being returned to the United States by the Shipping Commissioner at the Canal.

Capt. John Crapo, the master, summarized their experiences concisely:

"We were on our way," he said, "from New York to Miami, Florida, with the Rosina under charter. We were going to hire her out to the rich people, who go to Florida, for the winter as a pleasure yacht. When we were about 24 hours out of Buford, North Carolina, a stiff breeze springs up and away goes the rudder. We began to bounce around with no way to steer. She loosened up and began to leak and we had to pump her all the time to keep her afloat. There were just three of us—one of us a one-legged man—and we had our hands full trying to keep her up. I'd take a shift pumping an hour and lay off two hours—the other men the same way. We had plenty of water and food, but very poor facilities for cooking. The roof of the galley leaked and water kept slopping down the stovepipe. The only way we could cook anything was with a gasoline torch like the plumbers use, holding a pot or frying-pan in one hand and turning the torch on it with the other. The sea was pretty rough and kept breaking over the Rosina all the time.

"On December 31, New Year's Eve, about dark, we sighted a steamer off on the horizon. She saw our distress signals—we had the flag up upside down—and came over and got us. The Rosina looked like she was about to go down any minute and they didn't try to tow her because it would have meant keeping a man aboard her all of the time. We were mighty glad to see that steamer because the way we were drifting, if we had gone over another night we would have been clear out of the lane

and God knows when we would have seen another boat."

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending January 10, 1920.

				Cargo-		
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.	
Mantaro	Pernyian Line		January 4	Tons.	Tons.	
Jamaica	Pacific Steam Navigation Co Panama Railroad Cattle Industry.		January 4 January 5		783	
Aysen	Chilean Steamship Line Royal Dutch West India Mail		January 6 January 6		1,762 613	
Cauca Ucavali	Pacific Steam Navigation Co Peruvian Line	January 4	January 9	1,175	1,290 765	
Haiti Saint Louis	French Line	January 5	January 7		(*)	
HerediaLake Catherine	United Fruit Co Panama Railroad Steamship Line	January 5 January 5	January 7 January 7		(*) 47	
Panama	Panama Railroad Steamship Line United States Shipping Board	January 5 January 5	January 10 January 10		3,566	
Ashland County Balboa	United States Shipping Board Colombian Maritime Co	January 6 January 6	January 8 January 9	3,507 673	(*)	
Cowanshannock	United States Shipping Board	January 6 January 7	January 10 January 9		(*) 879	
Atenas	United Fruit Co	January 8	January 9		4,242	
Men docino	PanAmer. Pet. & Transp. Co	January 8 January 8	January 10	1,735	(*)	
Covalt	Panama Railroad Steamship Line					

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending January 10, 1920.

				Care	0-
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded
Newport	Colombian Maritime Co	January 9	January 9	45	Tons. (*) (*)

*No cargo laded.

Weather Conditions in December, 1919.

The rainfall for the month was generally well below normal, totals ranging from 1.10 inches at Taboga to 7.73 inches at Monte Lirio. The greatest amount of precipitation recorded on any one day was 3.62 inches, at Colon on December 3.

The estimated rainfall over Gatun Lake watershed was 5.07 inches, compared with a 9-year mean of 4.96 inches, and over the Chagres River basin above Alhajuela it was 3.96 inches, compared with an 18-year mean of 9.25 inches.

The air temperature, daytime cloudiness, and temperature of the sea water were approximately normal. The atmospheric pressure was slightly above normal and the relative humidity was below normal. The wind movement was slightly above normal everywhere except at Sosa Hill and Pedro Miguel, while the evaporation was above normal on both coasts and below at interior stations.

A few fogs were observed at interior stations, all of which lifted or were dissipated

by 8.30 a. m.

A seismic disturbance of light intensity was recorded at Balboa Heights on Decem-

Gatun Lake hydrology-Mean elevation of Gatun Lake was 86.99 feet; maximum 87.16 feet, on the 3d; minimum, 86.86, on the 31st; evaporation from Gatun Lake surface was 4.742 inches. Rainfall on Gatun Lake drainage basin, was 5.07 inches. The total yield of Gatun Lake watershed was 4.76 inches on the watershed. The total yield amounted to 94 per cent of the rainfall.

The following table summarizes the weather conditions for the month:

	uced 24		′	Tempera	ture.			Prec	ipitatio	n.			Win	d.	
Stations.	Pressure (reduction to mean of 2, hours).	Mean. Maximum.		Date. Minimum.		Date.	Mean relative humidity.	Total inches.	Station aver- age.	Days with .01 inch or more.	Total move- ment (miles).	Prevailing direction.	Maximum velocity in miles.	Direction.	Date.
Balboa		} .]										
Heights	29.856		92			Dec. 13	80.8		4.17	12	5,622		25	N.W.	Dec. 17
	29.864		87				78.6		11.61	23	9,778		30	N.E.	Dec. 30
Gamboa		78.4	91	Dec. 9		Dec. 13		3.69		17	4.315		23	N.E.	Dec. 29
Gatnn	1	80.1	89	Dec. 9	70	Dec. 13		6.62	10.09	24	5,177	N.	21	W.	Dec. 3

January Weather Probabilities.

The following weather conditions may be expected during the month of January. 1920. Predictions are based on the weather records at Colon and Balboa Heights

for the past 12 and 14 years, respectively:

Winds-January is normally a dry season month. Fresh northerly trade winds will prevail, and there will be an increase in the average wind velocity on both coasts, compared with December conditions. The hourly wind velocity will average from 12 to 16 miles on the Atlantic Coast, north and northeast winds prevailing. The maximum velocity is not likely to exceed 35 miles an hour.

The prevailing winds will continue from the northwest on the Pacific Coast, and the average hourly velocity will range from about 8 to 12 miles. The maximum ve-

locity on the Pacific side may not be expected to exceed 30 miles an hour.

Rain.—January is a dry season month, but occasional light showers may be expected. The dry season rainfall is usually heavier on the Atlantic side. The average January rainfall at Colon for the past 49 years is 3.81 inches, and the January average at Balboa Heights for the past 21 years is 1 inch. No heavy rains are likely to occur during the month on the Pacific side, and probably none on the Atlantic Coast.

Fogs—No fogs are likely to occur during the month on either coast, but occasional night and early morning fogs may be expected over the interior. All fogs should lift

or become dissipated by 8.30 a. m.

Temperature—There is little change in the average air temperature on the 1sthmus from month to month. The average shade temperature should be about 80° F. on both coasts.

On the Atlantic Coast the temperature is not likely to rise higher than 88° F. not fall lower than 70° F. while on the Pacific side the maximum temperature may be as

high as 93° F. and the minimum may be as low as 63° F.

The average daily range in temperature is about 18°F, on the Pacific Coast and over the interior, and but approximately 7°F, on the Atlantic Coast. The small daily range in temperature on the Atlantic Coast is due to the effects of the prevailing equable trade winds.

Barometric pressure—The atmospheric pressure during the month of January should be slightly higher than the pressure in December. The average sea-level pressure will be about 29.88 inches. The maximum pressure for the month is not likely to exceed 30.04 inches, nor the minimum to be lower than 29.7 inches.

Relative humidity—The relative humidity of the atmosphere will be lower with the arrival of settled dry season weather conditions. The humidity should average about 80 per cent over both coasts, but the daily range will be greater on the Pacific Coast, where the nighttime humidity is higher and the daytime humidity much lower

than on the Atlantic Coast.

Storms—No severe general storms are likely to occur during the month, although so-called "Northers" occasionally reach as far south as the Atlantic entrance of the Canal at this season of the year. Few, if any, local thunderstorms are likely to occur on either coast, and smooth seas and fair weather may be expected at the Pacific entrance.

Tides—Tidal fluctuations need not be considered in navigating the Atlantic entrance to the Canal, as the average tidal range on the Atlantic side is but about 1 foot and the maximum range approximately 2 feet.

Panama (Balboa) tide tables are given below:

Da	y of-	Time and Height of High	Day	of-	Time and He	eight of High	Da	y of	Time and He	
W.	Mo.	and Low Water.	W.	Mo.	and Low	Water.	W.	Mo.	and Lov	Water.
Th	1	5:00 11:06 5:22 11:37 2.5 12.9 2.9 14.2	М	12	2:29 8:35 1.5 14.0	2:44 8:58 1.8 14.3	F	23	5:12 11:28 14.3 0.3	6:41 11:47 14.9 0.9
F	2	6:04 12:17 6:28 2.2 13.3 2.7	Tu	13	3:21 9:22 2.3 13.0	3:34 9:47 2.8 13.4	S	24	5:53 12:05 14.5 0.2	6:17 15.1
s	3	0:42 7:09 1:21 7:36 14.6 1.6 14.0 2.1	W	14	4:13 10:15 3.0 12.1	4:26 10:42 3.6 12.7	S	25	0:24 6:30 0.8 14.5	12:41 6:54 0.4 15.2
s	4	1:43 8:13 2:20 8:39 15.2 0.7 14.9 1.3	Th	15	5:08 11:20 3.5 11.6	5:22 11:42 4.2 12.3	M	26	1:04 7:09 0.9 14.4	1:23 7:81 0.8 16.1
M	5	2:40 9:10 3:18 9:36 15.8 -0.3 15.6 0.4	F	16	6:07 12:25 3.7 11.5	6:23	Tu	27	1:49 7:49 1.1 14.1	:06 8:14 1.2 14.9
Γu	6	3:37 10:03 4:14 10:27 16.3 -1.1 16.3 -0.3	S	17	0:42 7:07 12.3 3.5	1:23 7:24 11.7 4.3	W	28	2:38 8:35 1.4 13.6	2:58 8:01 1.7 14.4
W	7	4:32 10:50 5:08 11:16 16.6 -1.5 16.7 -0.6	s	18	1:36 8:05 12.5 3.0	2:13 8:21 12.3 3.8	Th	29	3:34 9:31 1.7 13.1	8:55 10:01 2.2 13.9
Th	8	5:26 11:37 5:59 16.6 -1.5 16.8	M	19	2:24 8:53 12.9 2.4	2:59 9:11 12.8 3.1	F	30	4:35 10:40 1.9 12.7	4:57 11:12 2.5 13.8
F	9	0:03 6:16 12:21 8:47 -0.5 16.4 -1.1 16.6	Tu	20	3:08 9:36 13.3 1.7	3:42 9:54 13.4 2.4	S	31	5:38 11:55 1.9 12.8	8 .07 2 .8
s	10	0:50 7:04 1:07 7:31 -0.1 15.9 -0.3 16.1	W	21	3:52 10:16 13.4 1.1	4:23 10:32 18.9 1.7				
s	11	1:39 7:49 1:54 8:16 0.7 15.1 0.8 15.3	Th	22	4:33 10:53 14.0 0.6	5:02 11:10 14.5 1.2				

The tides are placed in the order of their occurrence; the *times* of high and low tides are shown on the upper lines. The figures in boldfaced type are hours and elevations between noon and midnight. ante meridian figures are given in the ordinary lightfaced type. The time is Cosmopolitan Standard for the meridian 75° W.

The elevations of the water are shown on the second line for each day; a comparison of consecutive heights will indicate whether it is high or low water. Heights are reckoned from mean low water springs, which is 8.3 below mean sea level and is the datum of soundings on the Coast and Geodetic Survey charts for this region. The depth of water may accordingly be estimated by adding the tabular height of the tide to the soundings, unless a minus (-) sign is before the height, in which case it is to be subtracted. The annual inequality or variation in the mean sea level is included in the predictions.

Breeding of Yellow Fever Mosquitoes in Canal Zone Quarters.

The Chief Health Officer authorizes the following

Yellow fever was stamped out of Panama solely by efforts directed against the one mosquito that conveys that disease, Aedes calopus also called stegomyia or Aedes trgenteus, which almost invariably breeds in or very near human habitations, in artificial containers provided by man. While the chances of a case of yellow fever originating on the Zone are few, and daily become more remote, there is still a possibility of the introduction of the disease from infected ports of neighboring countries, and the fight upon the disease-carrying mosquito is still prosecuted with unremitting

Aedes calopus have recently been found breeding in a flower vase on the parlor table of a girls' bachelor quarters from which complaints of mosquitoes were received. They were also found in a flower vase on a restaurant table. A complaint of mosquitoes in quarters usually means one of two things—defective screening or breeding within

the house in flowerpots or other neglected water containers.

From the time the egg is laid until an adult mosquito emerges over a week must clapse, and if a housekeeper will see that every water container is emptied and rinsed at least once a week she can with certainty prevent mosquito-breeding in them. Even though there be no yellow fever to carry, the Aedes calopus is a persistent, annoying biter after nightfall and its presence in the house means disturbed slumber and lack of rest, especially for children.

New Blue Print Machine.

A new blue print machine was recently installed in the blue print room of the Administration Building at Balboa Heights. It can make prints up to 60 inches in width, as compared with 42 inches on the previous machine, and can print at the rate of 20 linear feet per minute, which is about six times as fast as the earlier machine.

Local Civil Service Examinations.

The following examinations for The Panama Canal service will be held at Balboa Heights, Canal Zone, on the following dates:

Clerk, February 15, 1920. Postal Clerk, February 8, 1920. Stenographer and typist, February 8, 1920.

(Stenographer-typist, Departmental service, will be held March 14, 1920.)

Usual entrance salaries are clerk \$106 a month, clerk-typist \$116 a month for males and \$106 a month for females, postal clerk \$100 to \$125 a month, stenographer and rypist \$137 a month for males and \$116 a month for females. Full information in regard to the scope and character of examinations is contained in leaflets, forms 2203 and 2206, copies of which including sample questions may be obtained from the Secretary, Board of Civil Service Examiners, Room 244, Administration Building, Balboa Heights, Canal Zone, telephone Balboa 286.

Applicants for the clerk examination must take at least one optional subject in addition to the regular basis subjects. The optional subjects are typewriting, bookkeeping, general business training and experience, time-keeping, training and experience. If the third optional is taken three letters of recommendation from former employers written on the business letterhead of the firm and signed by the persons

recommending the applicants should accompany the application.

Applicants for the postal clerk examination must have had at least one year's experience in a United States or Canal Zone post office or as postmaster or as navy. mail clerk and must be familiar with the receipt, distribution, and dispatch of mail matter, the issuance of money orders, registration of mail and the preparation of various reports required of postmaster.

Applicants for The Panama Canal service must have reached their 20th but not their 45th birthday on the date of the examination, must be citizens of the United

States, physically sound and in good health.

Applicants must submit to the examiner on the day of the examination their photographs, taken within two years, securely pasted on the admission card which will be sent to them after their applications have been filed and the questions have been received from the United States.

Applicants for the clerk examination should state on the outside cover and also in answer to question No. 1, the optional subject desired in addition to the name of the examination.

In answer to question No. 4, applicants must show residence in some State or territory of the *United States* from the time of taking up residence therein to February, 1920, on account of temporary employment on the Canal Zone and their retention of legal residence in the United States and the same must be shown as to *county*.

In addition to the examinations for The Panama Canal service an examination for stenographer-typist in the Departmental service will be held at Balboa Heights, Canal Zone, on March 14, 1920. This examination is substantially the same as the one held for stenographer and typist for The Panama Canal service except that the minimum age limit is lower, i. e., 18 years. The entrance salary for typist is usually \$1,100 per annum, for stenographer \$1,200 per annum in the United States but for employment in civilian positions with the United States Army on the Isthmus of Panama, which positions are in the Departmental service, the same salaries may be

paid as are paid on the Isthmus of Panama in The Panama Canal service, Application form No. 1312 for The Panama Canal service and No. 304 for the Departmental service must be filled out including the medical certificate but excluding the county officer's certificate and should be filed promptly with the Board of Civil Service Examiners, Balboa Heights, Canal Zone.

Civil Service Examinations.

The tollowing examinations are announced by the United States Civil Service commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286). Age limits do not apply to persons entitled to preference because of military or naval service:

Assistant biologist (male and female); \$1,600 to \$2,000 a year; January 27, 1920; No. 43; form 2118 Age, 25 years but not 45 years.*
Assistant explosives chemist (male and female); \$1,800 to \$2,400 a year; January 27, 1920; No. 44;

Assistant explosives chemist (male and female); \$1,800 to \$2,400 a year; January 127, 1920; No. 44: form 2118; age, within reasonable age limits.*

Civilian aid for purchasing; civilian aid for shipping; civilian aid for salvage; civilian aid for steel and metal; civilian aid for stock upkeep; civilian aid for electrical stock; civilian aid for ordnance stock; civilian aid for fuel supply; storehouse superintendent (male and female); \$11.36 a day; February 3 1920; No. 49; form 1312; age, within reasonable age limits.*

Clerk with knowledge of greenhouse practices (male and female); \$1,500 a year; January 25, 1920. No. 46; form 1312; age, under 45 years.

Instrument maker (male and female); \$6.40 a day and \$1,260 a year; January 27, 1920; No. 42; form 1312; age, 21 years and aver.*

form 1312; age, 21 years and over.*

Mining accountant (male and female); \$2,400 to \$4,200 a year, for Grade I, and \$4,200 to \$6,000 for Grade II; February 4, 1920; No. 48; form 2118; age, under 60 years.*

Specialist in marketing cotton seed and its products (male and female); \$2,400 to \$3,240 a year; fanuary 27, 1920; No. 41; form 2118; age, 25 years but not 45 years.*

Superintendent of docks (male and female); \$1,800 to \$2,400 a year; February 10, 1920; No. 54; form 1312; age, under 50 years.

Assistant superintendent of docks (male and female); \$1,500 to \$1,800 a year; February 10, 1920;

No. 54; form 1312; age, under 50 years.*

Topographic and subsurface draftsman (male and female); \$5.20 to \$7.20 a day; January 27, 1920; No. 47; form 1312; age, 21 years and over.*

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

tNonassembled. Applications will be received at any time until further notice.

Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Evaristo Mack, (alias Posair, alias Mark). Jose Patrocinio, Ureña (alias J. Fatricino). Joseph Worrell	186567	Panama	Panama	Cattle Industry Cattle Industry Electrical Division	December 30, 1919.

Rates at Hotel Aspinwall, Taboga.

The following are the current rates at the Aspinwall: \$2.00 Employees: Dinner, lodging, and breakfast.... 2 75 1.25 1.50 2.00 Reduction of 10 per cent for employees on above rates for stay of 30 days. Further reduction of 10 per cent for families of four or more. 3.50 Nonemployees.....per day 1.50 1.75 1.00 1.25

Hotel patrons desiring to send trunks should arrange to have them delivered at the launch landing by 9,30 a. m., addressed to themselves, care of Hotel Aspinwall. Freight will be transported on the a. m. trip on Mondays, Thursdays, and Saturdays.

For further information address Manager, Hotel Aspinwall, Taboga, via Balboa, C. Z.

Official Circulars.

Photo-metal Checks Superseded for Ticker Identification.

PANAMA RAILROAD COMPANY, OFFICE OF AUDITOR,

BALBOA HEIGHTS, C. Z., January 6, 1920. CIRCULAR No. RA-671 (Amendment to Circular No. RA-660, October 16, 1919):

No. RA-600, October 10, 1919):

To all concerned—Commencing at once and until further notice, employees of The Panama Canal and the Panama Railroad will use their t4-trip pass book (instead of the photo-metal checks, the use of which has been discontinued) or commissary identification card of the latest usue as a means of identification to ticket agents, and collectors when purchasing and conductors, and collectors when purchasing and using reduced rate transportation over the Panama Railroad under conditions of Circular RA-660.

> H. A. A. SMITH Auditor, The Panama Canal.

Approved: S. W. HEALD, Superintendent.

Mail on Las Cascadas Branch.

PANAMA RAILROAD COMPANY, OFFICE OF MASTER OF TRANSPORTATION, BALBOA HEIGHTS, C. Z., January 9, 1926

To station agents and train baggagemen—Effective Monday, January 12, United States mail on Las Cascadas branch trains will be handled under

Las Cascadas branch trains will be handled under the following arrangement:

The present practice of billing of all mail 'packages will be discontinued. Billing of mail will be limited to lead sealed sacks and pouches only, sacks to be used only in case of shortage of pouches. Valuable mail matter of all classes will be protected by the postal service to the extent of dispatching it under seal or lock, and hand to hand receipt will be taken. Ordinary mail, such as letters of no commercial value, and papers and magazines mailed locally will be delivered to train baggagemen, who will in turn deliver to post-office messenger at destination. All such articles will be placed in an envelope plainly addressed or labeled so that there will be no confusion. Dispatches will be restricted to trains as follows:

Nos. 32, 33, 34, 36, and 37 daily except Sun-

Nos. 32, 33, 34, 36, and 37 daily except Sundays and holidays.

No. 31 on Mondays and days following holi-

Mo. 37 between Empire and Pedro Miguel only. W. F. FOSTER,

Muster of Trans portation

Joint Commission.

Rules of Dismissal.

In the matter of the dain of Placido Montevo-in which rule of default has been entered, rule of dismissal No. 446, docket No. 3481, January 7 1920—On April 13, 1916, the Joint Commission with the approval of the two Governments parties to the Treaty, adopted a rule relative to the continuance or dismissal of claims in which the the continuance or dismissal of claims in which the claims are not ready for trial on the date their claims are set for hearing or who fail to appear for hearing. This rule provides for the entering of a rule of default against claimants who fail to appear when called. This rule also provides that: "Upon the entry of such rule of default notice thereof shall be given by four successive publications, one each week, in the English and Spanish languages, in newspapers of general circular.

cations, one each week, in the English and Spanish languages, in newspapers of general circulation in the Republic of Panama, notifying such claimants to appear in person or by attorney with in sixty (60) days from the first of said publications and show good and sufficient cause why such default should be set aside, and take active steps to prosecute their claims, and failing to so appear within 60 days from said first publication thair within 60 days from said first publication their claims will be considered as having been either settled or abandoned and the same will be dis-missed and forever barred."

In the claim of Placido Monteza, docket No. 3481, set for hearing October 31, 1919, there was no appearance on the part of claimant nor counsel for claimant, and a rule of default was accordingly

entered against him.

Due notice having been given as provided for in the above-quoted section of the rule of the Commission, and there having been no appearance by claimant in person or by counsel during the 60-day period fixed in the rule referred to, which began on November 7, 1919, the foregoing claim against the United States is hereby dismissed and forever barred.

FEDERICO BOYD, GEORGE A. CONNOLLY, JULIO J. FABREGA, BURT NEW, Commissioners.

In the matter of the claims of Mariana Barsalle, Josefa J. R. Aizpuru, et al, Antonio Andrade, also called Andreades, also called Andreades, for property located wear Gorgona known as Causaloma and Waterloo, rule of dismissal No. 442, docket Nos. 2767, 2998, and 3087, January 2, 1920—The three above-numbered and styled claims were consolidated and tried together. The Commission is of the unanimous opinion that all of the property involved in these claims was included in the award of \$90,000. made by the Commission property involved in these claims was included in the award of \$90,000, made by the Commission to Antonio Andrade, also called Andreades, also called Andrades, one of the claimants above mamed, on the eighth day of August, 1908.

It further appears that subsequent to the making of said award for \$90,000, and prior to its ing of said award for \$90,000, and prior to its payment, legal proceedings were instituted in the courts of the Canal Zone, in which the other claimants above named sought to secure \$15,000 out of said award of \$90,000. These proceedings resulted in a judgment in favor of the claimant Andrade, and the Commission feels that it has no right to question or review this judgment.

In the judgment of the Commission there is absolutely no evidence of whatsoever character which would justify it in making any other or further awards for any of this property. The said claims are, therefore, hereby dismissed.

FEDERICO BOYD, GEORGE A. CONNOLLY, R. J ALFARO, BURT NEW, Commissioners.

In the matter of the claims of Samuel Miller and Eusebio A. Morales, for property known as Buena Vista and Agua Salud, rule of dismissal No. 443, docket Nos. 590 and 210, January 5, 1920—The claims of Samuel Miller and Eusebio A. Morales, docket Nos. 590 and 210, respectively, are hereby dismissed for lack of evidence sufficient to justify an award against the United States. Federico Boyd, Julio J. Fabrega, George A. Connolly, Burt New, Commissioners.

In the matter of the claim of Espiridión Julio and Ildefonso Pinto, for land located near Gatun, rule of dismissal No. 444, docket No. 3489, January 5, 1920—The claim of Espiridión Julio and Ildefonso Pinto, docket No. 3489, is hereby dismissed for lack of evidence sufficient to justify an award against the United States.

FEDERICO BOYD, GEORGE A. CONNOLLY, JULIO I. FABREGA, BURT NEW, Commissioners.

Ir the matter of the claims of Sara de Urriola and Eusebio A. Morales, for property known as Iuan Grande, rule of dismissal No. 445, docket Nos. 574 and 1872, January 2, 1920—The above-styled and numbered claims were consolidated and tried together. The claim in the Urriola case stands upon the same footing as that in the Morales case, in which the claimant seeks an award against the United States on the theory of his ownership of certain lands known by the name as Juan Grande and situated in the old Gorgona District. District.

It is claimed that Eusebio A. Morales acquired the property by purchase from Mrs. Juana Francisca de Alonzo, the claimant Morales having Francisca de Alonzo, the claimant Morales having stated in a letter that was filed in court by Attorney C. P. Fairman, that \(\frac{1}{2} \) of the property bought by him belongs to Narciso Barsallo; \(\frac{1}{2} \) to the heirs of Juana Francisca de Alonzo, and the remaining \(\frac{1}{2} \) to himself. The interest of Sara de Urriola arises from her father, Rufino Urriola, who purchased one-half of the \(\frac{1}{2} \) interest alleged to belong to Narciso Barsallo. In support of the claim of Eusebio A. Morales his counsel presented a deed of protocolization from which it appears that certain exparte declarations under oath were made by several witnesses in the year 1904. In the opinion of the Commission the evidence of the witnesses given in these declarations and so protocolized has no probative value whatever and is absolutely worth-

probative value whatever and is absolutely worth-

We had occasion in the trial of the Mendes-Cowan case, claims docket Nos. 1543, 2884, and 3113, to consider the question of ex parte declarations of witnesses, similar to those offered in the present case, and we desire to quote the following from our decision in that case:

** * * No provision of the law

authorized the taking of ex purte depositions as a valid means of reconstituting a lost title.

* Under the law of Panama no depositions of witnesses are valid, even when there is a contention between parties litigant, unless the depositions have been ratified before the court taking cognizance of the case.

* No law of the Republic of Colombia provided a method of creating title to real property by means of depositions of witnesses in ex parte proceedings: (declaraciones fuera de juicio.)

'Article 683 of the Judicial Code refers to the taking of depositions to prove title only when there is a contention between parties litigant as to the ownership of real property.

"Even in this case the depositions must be taken during the probatory term of the suit, with citation of the contending party.
"Depositions of witnesses taken in ex parte or summary proceedings are not valid in an ordinary action unless they are ratified before the court

which takes cognizance of the case.
"The depositions themselves, by the manner

"The depositions themselves, by the manner in which they were rendered are not satisfactory to this court, even if they were legally valid." On the 8th day of April, 1904, under instrument No. 58 executed before the Judge of the Second Circuit of Panama, Juana Francisca Alonzo conveyed to Dr. Eusebio A. Morales the land of Juan Grande for which he makes claim in the present case. No other or further muniment of title than this deed and the ex parte declarations above mentioned was offered by the attorney for the claimant Morales. the claimant Morales.

Counsel for the Government contended, and

has fully proven by maps filed during the trial, that the major portion of the land claimed by Morales was located within the Juan Grande tract which was acquired by the United States from the French Canal Company, which company

tract which was acquired by the United States from the French Canal Company, which company had bought the same tract many years previously from the owners of said lands, who had been in possession thereof since 1856, as shown on the Harrison-Arosemena map; and the remaining portion of the land forms part of the public lands comprised within the so-called Lot No. 6 which were never appropriated by private parties in any manner recognized or authorized by Colombian law, and which were therefore comprised within the grants contained in the Canal Treaty. The owner of the property of Juan Grande, as appears on the Harrison-Arosemena map, was Santiago Posada, and on February 21, 1863, he sold to Evaristo Rodriguez all of the Juan Grande property lying north of the Chagres River. On February 23, 1884, the heirs of the said Evaristo Rodriguez conveyed the same property to the French Canal Company, and it is a matter of common knowledge of which we have repeatedly taken judicial notice, that all of the property of the French Canal Company on the Isthmus of Panama passed to the Government of the United States in 1904.

It thus appears, without contradiction, that the States in 1904.

It thus appears, without contradiction, that the Government of the United States has a record title to the major part of the property for which the claimants in this case are making claim, extending back to the year 1856, and that to the small reportion the claimants have shown no maining valid title.

In the judgment of the Commission there is a total lack of evidence which would justify it in making any award whatever in either of the above-styled and numbered claims, and they are

both therefore hereby dismissed.

FEDERICO BOYD, R. J. ALFARO, GEORGE A CONNOLLY, BURT NEW, Commissioners.

Additions to Commissary Stock. Dry Goods Section.

Dry Goods Section.

Cases, pillow, cotton, embroidered, scalloped, 45/36", pr.

Cases, pillow, cotton, embroidered, H. S., 45/36", pr.

Cases, pillow, cotton, embroidered, H. S., 45/36", pr.

Cases, pillow, cotton, embroidered, H. S., 45/36", pr.

Cases, pillow, cotton, embroidered, bluebird, H. S., 45/36", pr.

Centerpieces, filet, 18", ea.

Centerpieces, filet, 26", ea.

Centerpieces, filet, 26", ea.

Centerpieces, filet, 26", ea.

Centerpieces, filet, 26", ea.

Centerpieces, filet, 52", ea.

Centerpieces, filet, 54", ea.

Centerpieces, filet, 54", ea.

Centerpieces, lace, 54", ea.

Centerpieces, lace, 54", ea.

Centerpieces, lace, 54", ea.

Centerpieces, lace, 54", ea. 2,20 2.20 .81 1,35 3.25 .89 .25 1.10 4.45 3,60

Chemise, crepe de chine, silk, pink, ea	\$4.70
Doylies, filet, lace trimmed, 6", ea	. 20
Doylies, filet, lace trimmed, 9", ea	. 26
Doylies, filet, lace trimmed, 7", ea	. 24
	.31
Doylies, filet, lace trimmed, 10", ea	
Nightgowns, ladies', ea	2.85
Nightgowns, ladies', ea	3.45
Nightgowns, ladies', ea	5.35
Nightgowns, ladies', ea	5,05
Scarfs, filet. lace trimmed, 18/54", ea	1.50
Scarfs, filet, lace trimmed, 18/54", ea	1.75
Scarfs, lace, 18/54", ea	1.10
	1.25
Scarfs, lace, 18/54", ea	
Soap, mange, cake	. 17
Ties, Windsor, polka dot, ea	. 56
Hardware Section.	
Cages, bird, No. 264, ea	2.75
Chinaware, Doulton, miscellaneous:	20
	4.05
Bowls, flower, Selby, D-3416, 11", ea	4.05
Cups and saucers, E-8079, set	.56
Plates, E-4090, 6", ea	. 69
Plates, E-8079, 7", ea	, 63
Pots, coffee, Cecil, E-8079, 30s, ea	2.45
roth, contect occur, 22 corry cool carrier	_, _,

Current Prices on Coal, Fuel Oil, and Beet.

Coal is being supplied to steamships, including warships of all nations, delivered and trimmed in bunkers, at \$13.50 per ton of 2,240 pounds at Cristobal and \$15.50 at Balboa. For ships in trausit through the Canal, which are directed to take coal at Balboa, for the convenience of The Panama Canal, \$13.50 per ton at Balboa. For ships taking less than carload lots from plants or less than 25 tons from lighters, the price is \$15

per ton at Cristobal, \$17 at Balboa.

Crude fuel oil is delivered to vessels at either
Cristobal or Balboa for \$1.50 per barrel of 42

gallons.

Diesel oil is not sold by The Panama Canal, but may be obtained from private concerns at approximately \$3 per barrel. Cable arrangement should be made in advance of arrival of vessel.

The following are current prices on fresh beel sold from the cold storage plant of the Canal. Prices quoted are United States currency, per

beef binds.

Beef hinds, 19 cents; beef fores, 14 cents; beef ribs, entire set, 20 cents; short loins, 25 cents. This beef is from Colombian cattle.

December Rainfall for Three Years.

		INCHES				
Stations.	1919	1918	1917	Station average.	Years of record.	Rainy days, 1919.
Pacific section— Balboa Heights Miraflores. Pedro Miguel. Rio Grande Central section— Culebra Camacho. Empire Gamboa Juan Mina Alhajuela	1.13 1.81 4.11 3.22 5.90 3.42 3.67 2.43 3.69 4.39	1.42 .55 1.93 1.09 .31 .39 .35 .38 1.25 48 .27	4.49 4.09 6.13 7.00 7.41 5.84 8.70 7.71 8.31 7.06 6.41	5.30 4.17 6.36 5.42 5.35 6.78 5.46 4.81 6.51 4.70 5.77	21 23 12 12 15 30 11 16 37 10 21	11 12 8 10 11 13 7 13 17 10 17
Vigia Frijoles Trinidad Monte Lirio Atlantic section— Gatun Brazos Brook.	2.44 1.82 5.92 5.64 7.73 6.62 6.79	1.35 .91 1.04 1.92 1.73	4.21 10.18 9.14 9.97 11.59 11.93	4.34 5.66 7.78 8.78 10.09 10.80	12 8 12 13 15 14	21 18 24 15
Colon	7.37	1.90	11.66	11.61	49	23

Rainfall from Dec. 1 to 31, 1919, inclusive,

STATIONS	Maximum in one day.	Date	Total
Pacific section—	Ins.		Ins.
Balboa	.54	12	1.13
Balboa Heights	.51	12	1.81
Miraflores	1.44	4	4.11
Pedro Miguel	1.46	4	3.22
Rio Grande	2.52	1	5.90
Central section-			
*Culebra	1.38	15	3.42
*Camacho	1.71	15	3.67
Empire	.91	1	2.43
Gamboa	1.87	1	3.69
*Juan Mina	2.48	1	4.39
Alhajuela	1.26	1	2.44
*Vigia	.53	1	1.82
Darien	. 96	13	4.90
*Trinidad	2.10	3	5 64
*Monte Lirio	2.42	4	7 73
Atlantic section—			
Gatun	2.38	3	6.62
*Brazos Brook	2.40	3	6.74
Colon	3.62	3	7.37
†Bocas del Toro	4.64	10	18.42
Porto Bello	1.40	15	6.16

*Standard rain gauge-readings at 5 p. m. daily. Automatic rain gauge at unstarred stations-Values midnight to midnight.

†Standard rain gauge-readings at 8 a. m. daily.

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THE PANAMA CANAL RECORD



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Balboa Heights, C. Z., January 21, 1920. Volume XIII.

No. 23.

Status of Former German Vessels Overhauled at the Canal Shops.

The following information regarding two of the ex-German vessels overhauled by the Mechanical Division, The Panama Canal, will be of general interest:

(a) Callao (ex Sierra Cordoba)—The New York Navy Yard has received a contract from the United States Shipping Board for reconditioning this vessel, converting her from a transport to a passenger steamer. The Callao was completely overhauled and her damaged boilers repaired at the Balboa shops, this work having been completed on April 5, 1919, when the vessel was turned over to the Superintendent, Marine Division, representing the United States Shipping Board, for dispatching to the United States. During the intervening time she has been in the service as a transport.

(b) Eten (ex Rhakotis)—It has been noted from a recent New York maritime notice that this vessel is on the mail route between New York and Cape Town, South Africa. The general overhaul of the Eten at the Balboa shops was completed on April 10, 1919, when she was turned over to the United States Shipping Board representative

and dispatched to the United States.

Commercial Woods Native of Canal Zone and Republic of Panama and in Structural Use by The Panama Canal.

The following report on native woods in structural use by The Panama Canal has Leen made by Mr. T. W. Braddy, Lumber Inspector of The Panama Canal:

There are more than 50 species of timber of from fair to excellent commercial value growing within the Canal Zone and Republic of Panama, which also occur in greater or less abundance throughout all Central America and in most of the islands of the

British West Indies.

From this unusually large field, The Panama Canal has been able to develop but 14 different kinds of useful lumber, for the reason that only the timber growing in the marginal lands of Gatun Lake has been accessible with the logging equipment in use and the fact that several of the most valuable species appear confined entirely to the lower coastal country where logging operations have not been carried on.

The data accompanying the 14 species submitted, while perhaps of little scientific value, are fairly reliable in so far as they relate to the life and adaptability of the

lumber or concern its physical appearances and characteristics.

DISTRIBUTION.

While some of the timbers listed below show an inclination to grow in pure stands, such tendency appears never to be thoroughly accomplished, perhaps because of interference during early life by the nonlumber-producing trees of more rapid growth. So far as is known, all the timbers of this country grow in mixed stands, the slight separation incident to elevation and soil being the only notable exception to the rule. This peculiarity of growth, applying to all in common, will not be mentioned in connection with each separate species.

ALMENDRA.

Appearances and characteristics.—In color the wood is dark brown with a closely interlocking grain, and very dense. The trees reach a height of 140 feet and attain a size of 60 inches in diameter; they carry sapwood only in negligible quantity. tree has certain irregularities in trunk growth and, while not so pronounced as is found in other similar species, is still more or less damaging in adapting the logs to the manufacture of lumber. The bark of the tree is 1 to $1\frac{1}{2}$ inches in thickness, very brittle and full of pits and valleys. The lumber from Almendra has a weight when green of 72.5 pounds per cubic toot; when dry 65.3 pounds per cubic foot. Belongs to genus Hamocharia.

Uses.—Lumber from this species has been used with very satisfactory results for ship and dredge fenders, keels, stem and stern posts, and other heavy ship construction. It has also given very satisfactory service as fenders for the Canal locks, resisting teredo attack more stubbornly than imported woods and may be used as a general substitute for iron bark or tallow wood.

AMARGO.

Appearances and characteristics.—This wood is of a deep yellowish color, with an unusually contorted grain, and ordinarily porous. It contains a yellow resin or cretaceous substance, extremely bitter and highly inflammable. The trees reach the lofty height of 150 feet and attain a diameter of as much as 65 inches; is very stately in growth, and perhaps of the best timber form of any tropical tree. It is among the lightest of the hard woods of this country, containing almost enough buoyancy to float. The lumber stands this climate well, showing very little tendency to check when exposed to the alternate sunshine and rain common to this latitude. The bark is thick, corrugated, and tough. The lumber weighs when green 63.8 pounds to the cubic foot, and when dry 59 pounds; it pelongs to the natural order Leguminosæ.

Uses,—Lumber from this species has been used for ships keels, dredge construction, and to some extent in light construction work such as vehicle and small boat

building and repairs.

ALCARETO.

Appearances and characteristics.—The Alcareto tree, which has a very deep ring of sapwood, reaches a height of from 120 to 140 feet without showing a limb, developing but very few branches, which are closely assembled at the very top. It does not reach a very large diameter, a 30 to 36-inch tree at the base being an unusual instance. It has a thick crumbly bark, gray in color, which adheres tightly even when on seasoned logs. The wood possesses a marked ability to change hue in process of seasoning without showing any evidences of decomposition. The heartwood, being of a deep purple, and the sapwood, of a very light yellow when green, changes into light brown and deeper yellow when dry. The lumber weighs 65.6 pounds per cubic foot when green and 59.4 pounds when dry. Not determined; is apparently of second growth.

Uses.—This class of native lumber has been used as a general substitute for white oak in the construction of railroad cars, locomotive tender frames, and to some extent for vehicle work. It apparently possesses a greater living power than oak:

is equally as strong, and withstands local climatic conditions much better.

ALCAVU.

Appearances and characteristics.—Alcavu is light yellow in color, very similar in color to the tuplo or yellow poplar of the United States, although it is not so dense; has a thin, tough, stringy bark, and peels easily. The tree is fairly symmetrical in growth; reaches a height of 100 feet; attains a diameter of no more than 30 inches, and contains no trace of sapwood. It weighs when green 35 pounds per cubic foot; when dry, 31 pounds. Genus unknown.

when dry, 31 pounds. Genus unknown.

*Uses.**—This lumber has been used as a general substitute for poplar in sash and door work, vehicle work, and coach siding for railroad passenger coaches. The wood can not be subjected to any unusual strain, but it possesses long life and takes a reasonably high polish and in ordinary work makes a showing equal to yellow poplar

or bay poplar (Tuplo).

BATTEO.

Appearances and characteristics.—The Batteo is very irregular in growth; almost every tree from this species being elliptical in shape, having two heart centers in most instances, which makes it difficult to utilize the entire body of the tree for board stock. The variations in color of the heartwood and sapwood are inconsequential. The heartwood, in color, texture, grain and general formation, is almost identical with Caoba Blanca. The bark is very similar but the leaves are altogether different; they are much larger, thicker and of a different shape and of a vastly darker green in color. The wood is of a very dry nature and ordinarily very light, though individual pieces may be hard, much darker in color and somewhat heavier than the average of either species. The wood is very much stronger structurally than Caoba Blanca but the relationship is so striking in the physical appearances of the lumber that there can be but little doubt that the tree belongs to the family of Central American mahoganies. The tree grows to a large size but not so lofty as other large trees of the tropics, its branches usually leaving the body of the tree at from 30 to 40 feet from the ground. The lumber from this species weighs when green 40.6 pounds per cubic foot, and 34 pounds per cubic foot when dry. Family, Meliaceæ.

Uses.—Batteo is used as a general construction lumber and for such special work

as car decking, box car siding, ceiling and wainscoting in interior finish.

CEDRO AMARGO.

Appearances and characteristics. - In color the wood is of a reddish brown with a narrow band of white sapwood which contains a small amount of resin. Occasionally a clear white drop resembling turpentine may be seen collected at a given point on the surface of a freshly sawn board. It possesses a strong, not unpleasant odor; has a long, shiny grain; is extremely brash or brittle, frequently splitting or breaking in small pieces when felled in rough and uneven country. The tree varies in height from 60 to 90 feet and reaches the extreme diameter of 6 feet at the ground. The taper is fairly uniform and as a rule is carried well into the limbs. The bark of the tree re-sembles the genuine mahogany, native of Honduras and Nicaragua, slightly thinner and more corrugated in structure, however, and with a shorter, less stringy fiber present. The leaves of this species of cedar are comparatively small, oval in shape, very thin, and of a fragile formation generally. In color they are not of so rich a green as the foliage of other trees believed to belong to this family, i. e. Maria and Batteo; neither are they so thick, so large or fibrous, which, together with the highly pungent nature of the wood, almost totally absent in Batteo and Maria, does not strongly denote the relationship to the mahogany family, at least not to the true mahogany, but the lumber manufactured from Cedro Amargo coming from like localities, and even the Honduran and Nicaraguan product makes the proper separation of the two kinds extremely difficult in many cases by the ordinary process employed in the inspection of lumber. Indeed, Cedro Amargo lumber has been used successfully by unscrupulous dealers as a grade adulterant of the true mahogany. This lumber takes a nice finish; possesses long life, and but for its extreme brittleness would be equally as valuable as the true mahogany for panel work and interior finish. The lumber when green weighs 32.5 pounds per cubic foot; when dry 29.4 pounds. Family, Meliaceæ.

Uses.—This lumber has been applied to certain interior finish, cabinet and coach

CAOBA BLANCA.

Appearances and characteristics.—The heartwood and sapwood of Caoba Blanca varies very little in color, although there is a very marked difference in the life and strength of the two. The tree carries a very light sapwood, however, measuring never more than 2 inches in thickness and frequently as thin as \(\frac{3}{4}\)-inch. It reaches an altitude under certain soil conditions of 70 to 80 feet, and it is usually 40 to 50 feet to the first branches; attains a diameter in rare instances of as much as 40 inches, but the average diameter is approximately 26 inches. The taper of the tree is not so uniform as Cedro Amargo nor is it nearly so symmetrical in growth. The wood possesses an unusual beauty in both figure of grain and color, and being of a soft absorbent nature, together with a total absence of resin, the lumber offers an ideal surface for the most artistic finish. The bark is approximately 1 inch thick, adheres closely to the tree and is very crumbly. It breaks abruptly, leaving no stringy fibers at the break. The leaves are very small, light green in color, and pointed. The wood weighs when green 40 pounds to the cubic foot; when dry, 33.6 pounds per cubic foot. Family, Meliacea.

Uses.—The lumber manufactured from this species of timber is now being used exclusively for both the siding and inside finish of passenger coaches for service on the Panama Railroad. It is also used with satisfactory results for ships' furniture and other cabinet, panel, and sash and door work. It was never used prior to 1917

and further than local consumption is not now known commercially.

ESPAVE.

Appearances and characteristics.—The Espave tree is one of the most massive of Central America. It reaches a diameter of as much as 75 inches and a height in extreme cases of only 100 feet. It is of fair timber form and carries an unusual amount of sapwood, which is very subject to insect attack. The contrast in color of the sapwood and heartwood is very marked, as is also the structural strength, the sapwood being very much tougher and taking a more beautiful finish than the heartwood. The heartwood is a very dark brown in color and inclined to be soft or spongy, while the sapwood is very much firmer and white in color when green, taking a gradually increasing brownish hue in process of seasoning until it reaches what is called a mahogany color. It is the most abundant lumber-producing tree of the Panamanian Republic, and while it is very inferior from a structural standpoint, it possesses a pounds per cubic foot when green; when dry 34.3 pounds. The lumber weighs 42.5 pounds per cubic foot when green; when dry 34.3 pounds. Family, Meliacee.

Uses.—This lumber is not used extensively by The Panama Canal for the reason that the mill equipment is not adequate for handling, but for ceiling, siding, wain-

scoting and wide panels, its beauty is perhaps unexcelled by any lumber in the world.

GUAYACAN.

Appearances and characteristics.—The Guayacan tree is very irregular in growth, presenting flutes, valleys, and corrugations which make it extremely difficult to overcome in the manufacture of lumber, and maintain a constant ratio oetween log measurement and saw product. The wood is very dark in color, of a very dense structure, and extremely hard. The tree reaches a diameter of 50 inches and frequently attains a height of as much as 130 feet. The limbs are well scattered and in no way affect its adaptability to the manufacture of lumber. The weight of the wood when green is 70.8 pounds per cubic foots when dry 76.3 pounds by the foots when dry 76.3 pounds per cubic foots when dry 76.3 pounds by the foots when dry 76.3 pounds per cubic foots when when green is 79.8 pounds per cubic foot; when dry, 76.3 pounds. It is of the family Lignum-vitæ.

Uses.—This lumber has been used for all manner of heavy construction work on the Isthmus, and has been found of special service for heavy ship timbers and as a successful competitor of true lignum-vitae for stern bushings and bearings for ships. The bark of the tree is long and stringy, with a very thick tough felon between the outer bark and the tree. It is very similar to the true lignum-vitæ. There are examples extant where this wood has been in use for more than a century and showing no unusual signs of deterioration other than ordinary mechanical and weather wear.

MARIA.

Appearances and characteristics.—The heartwood is light red in color, with a negligible amount of sapwood closely resembling the heartwood in texture and strength, with but slight difference in color. A resin or gum exudes from it when tapped, or an abrasion occurs on the surface of a log, which seems to be confined almost entirely to the bark. The gum is of an extremely tough and adhering nature. The tree is one of the loftiest of the local forest, reaching a height of from 110 to 160 feet and a diameter of as much as 50 inches. Trees of this size are unusual, however, the average being approximaely 30 inches in diameter. The bark is very tough, and corrugated in appearance, resembling very much the bark of the red oak tree indigenous to the United States. The branches of the tree are well assembled at the top and seldom show of the Magnolia, although not so large or rich in coloring. The appearance of Maria lumber, when finished, is very similar to Caoba Blanca, Batteo, Cedro Amargo, and other members of the mahogany family; its weight when green is 35 pounds to the cubic foot; when dry, 30 pounds per cubic foot. Family, Metiacca.

Uses.—The lumber of this tree has been used for general building and car decking,

as a rule, but it is capable of taking a very high finish, and on occasions has been

used for door panels and cabinet work with gratifying results.

NISPERO.

Appearances and characteristics.—The wood of the Nispero is a dark red in color, very hard and compact in formation and yields a high grade of rubber called "Balata," used in the manufacture of chewing gum and for the insulation of electric wires. It is also a fruit-pearing tree and is much prized for the delectable apple which it bears. The tree carries a very thin sap, white in color, with a comparatively thin bark, long, stringy, and scaly in its formation. It does not grow enormously large; a 40-inch diameter and 80-foot body being the exception. It is of fairly uniform growth and taper, and but for its tendency to split open in seasoning, is very well adapted to lumber purposes. The weight of the lumber when green is 81.9 pounds per cubic foot; when dry 79.4 pounds per cubic foot. It is known to dendrologists as the bully tree. Of the species Dipholis.

Uses.—This class of native timber has not been used extensively by The Panama. Canal, chiefly because there are other timbers less difficult to handle, more easily available. It may, however, be used for any heavy construction work with the as-

surance of practically limitless life.

NOGALON.

Appearances and characteristics.—The Nogalen tree has very little sapwood. The heart, light gray in color, is unusually porous for tropical hardwood, possesses a very great structural strength and is very beautiful when appearing in finished work. The tree grows to an immense diameter, but long logs can not be cut from it in the reason that the tree is subject to very abrupt crooks and reverse curves in the body. The bark of the tree is very similar to white oak bark, somewhat more stringy and much tougher. When green, the lun ber weighs 68.6 pounds per cubic foot; when dry 62.4 pounds per cubic foot. Believed to belong to family Juglandacea.

Uses.—A small amount of this lumber has been used for panel work, and stepping.

giving satisfactory service.

PONULO.

Appearances and characteristics.—The Ponulo tree is of medium size and height, never reaching a diameter greater than 30 inches or a greater height than 90 feet. The body is subject to the same irregularities of growth as the black Guayacan, although such defects are not so numerous in this species. So far as is known it is the only tree of the country having a perfectly smooth thin bark; this bark is perhaps not over 3-inch thick in extreme cases; adheres very closely to the body of the tree and resembles in color and general appearance the bark of the Sycamore tree of the United States, even to the extent of presenting the same light colored spots or splotches appearing at irregular intervals on the body of Sycamore trees. The lumber weighs when green 43.1 pounds per cubic foot; when dry, 34.3 pounds per cubic foot. Genus, unknown.

Uses.—The timper is one of the latest exploited and data are very meager in regard to its proper uses. So far it has only been used for car stakes, car decking, box building, and other inferior work. It is not thought that the lumber from this species possesses sufficient life or strength to be of any important use here on the Canal or of

particular interest to commerce.

ROBLE.

Appearances and characteristics.—Roble, a Spanish word meaning oak, is very much lighter than the American white oak, having an oak bark and taking a very similar finish to the American product, although very much more porous and greatly inferior in structural strength. The foliage of the tree consists of single leaves of oval shape and not palmated as the leaf of the American white oak. It is perhaps the hardest of tropical timbers to adapt to lumber uses, for the reason that its trunk and body formation is so irregular and presents so many variations in shape when in the log. A log having as many as 5 valleys of from 10 to 14 inches in depth, is not unusual in this timber; the extreme diameter, measured from the two opposite flutes, is not more than 26 to 35 inches, thus presenting a star shape at either end with practically no body proper from which to manufacture lumber. Perhaps 80 per cent of the logs of this species furnished are affected in this manner. The lumber when green weighs 53.7 pounds per cubic foot; when dry, 48.6 pounds per cubic foot. Genus, Quercus.

Uses.—Roble has been in use for a long time among the natives in general carpentry work and special furniture making. It produces, so far as quality is concerned, a very pretty and lasting lumber, but owing to defects mentioned above and its apparent scarcity in the vicinity of present logging operations it is not used extensively on the

Canal.

Name.	Moisture condition.	Specific gravity.	Pounds sq. in. (a)	Pounds sq. in. (b)
Guayacan. Alcareto Almendra Nispero. Alcavu Roble Amargo Maria Espave Cedro Amargo Caoba Blanca Batteo Ponulo.	Green Green Green	1.22 1.05 1.16 1.31 .56 .86 1.02 .56 .68	20,650 16,200 13,050 11,700 10,100 8,280 7,510 6,300 5,130 5,040 3,820 3,860 4,520	13,770 8,930 10,900 8,136 4,500 4,580 4,490 2,580 4,300 3,420 3,500 1,660
Nogalon.	Air-dry		7,280	4,700

(a) Transverse strength modulus of rupture pounds per square inch, center load across edge of grain.
 (b) Compressive strength pounds per square inch. Compression parallel to grain.

The foregoing table, showing specific gravity, transverse and compressive strength of the woods under discussion, was used in computing weights furnished under the different heads, and whenever an actual check has been made against them have held up with practical uniformity.

The following are the local names applied to some of the other beautiful, longlived, and valuable woods native of Panama and other Central American countries:

Alcornoque Gauchipali Quira Laurel Cedro macho Cedro cebollo

Corotu Pilon Aguacatillo Cacique Nazareno Cedro espinoso Olivo Guava Guarguro Mora Caracucho Alfajia

Amarillo, real Algorrobo Mangle, colorado Mangle, blanco. Marmacillo

MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight, January 17, 1920.

Canal	1982	Net	4,756	3,424	1,692	728	3,912	4,658 1.501	4,944	4,160 6,658	000	4,880		1.740		5,530		4,739		650	1,404	2,533	2,163	2,646	Part of the Part o
PanamaCanal	TOTAL	Gross	6,843	4.642	2.660	1,202	5,228	6,529 2,366	6,571	9,816	- 6	6,656		2.764	2,123	4,782		6,529		1,128	2,246	2,795	3,173	4,100	
	Tons		6,474			1,000	4,223	8,625		9,000		, ,000		:		4,03.5		7,205		300	3,000		1,873	2,643	
	Cargo		General		Conorol			Case oil		General, case cil.		Case out, general.				General		Iron and general.					General	General	
	For		Talcahuano	San Diego			Iquique	Yokohama	Honolulu	Shanghai	11	Manula.	San Diego	San Diego	San Francisco.	San Diezo	San Diego	Yokohama	San Diego	Buenaventura.	Chile	Iquique"	San Francisco.	Valparaiso	
	From		New York	Charleston	Norfolk.	Bordeaux		New York		New York		Charleston.	Charleston	Charleston.	Baltimore	Guantanamo	Guantanamo	New York	Charleston	New York	Norfolk.		Charleston Charleston	Cristobal New York	
i	Water	ararı	25.6	14.0	51		20.6	25.6	25.10	25.11		24.0	=	13.5	213	20.02	9.11	26.0	12.0			24	2 0	17	
	Веап		51.0	36.0	46.0		51.0	54 43.8	53.1	57.3	1	38.0	36.0	36.0	43.0	31.0	31.0	54.2	36.0	34.0	43	43	35.0	# 79	
	Length Beam Water		406.6 253.0	360.0	267.0	244.0	370.0	401.0	401.9	400 0		409.0	189.0	189.0 251.0	225.0	315.0	315.0	400.7	186.0	225.2	250.5	253.4	326.0	350.0	
Innocen ins canal a leaves	Line		W. R. Grace & Co	United States Navy	United States Shipping Board	Cia. Naval de L'Oceania	Janto Kisen Kaisha	United States Shipping Board	United States Shipping Board	Katsuda Ktsen Kaisha		United States Shipping Board		United States Navy	W. R. Grace & Co.	Parities States Navigation Co	United States Navy	United States Shipping Board	Urited States Navy	A. E. Leganger	United States Shipping Board	United States Shipping Board	Pacific Mail S. S. Co	Pacific Steam Navigation Co. United States Shipping Board.	
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(l) Submarines. (m) Bark.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending January 17, 1920.

				Carg	0-
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
			7	Tons.	Tons.
Covalt	Panama Railroad Steamship Line	V	January 11		(*)
Craycroft	Panama Railroad Steamship Line.	January 11			(*)
Trident	Royal Mail Steam Packet Co	January 11	January 13 January 17		2, 946 751
Peru	Pacific Steam Navigation Co	January II	January 14		2,272
Allianca	Panama Railroad Steamship Line. United Fruit Co	January 12			37
Parismina Newport	Pacific Mail Steamship Line				2,053
Salvador	Pacific Steam Navigation Co	January 12	January 17		1.126
Laura C. Hall	Pacific Metal: Corporation	January 12		m o	
Sorata	Royal Mail Steam Packet Co	January 13		3	(*)
Cowboy	W. R. Grane & Co	January 13		2,679	
Middlebury	Panama Railroad Cattle Industry.	January 13		600	
Lake Gebhart	United States Shipping Board	January 14		3,428	
Tivives	United Fruit Co	January 14	January 15		98
Battonville	United States Shipping Board	January 14		2,528	
Huasco	Chilean S. S. Line				
Gen. G. W. Goethals	Panama Railroad Steamship Line	January 15		2,629	
Carrillo	United Fruit Co	January 15		2	
Lake Frenchton	United States Shipping Board				
Manavi					
Urubamba	Peruvian S. S. Line				
Asian			·	1,056	(4)
Ebro	Pacific Steam Navigation Co		January 17		(*)
Colon	Panama Railroad Steamship Line	January 17	1	3,800	

*No cargo laded.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending January 17, 1920.

			D	Care	go—
Name of vessel.	lane or charteret.	Arrived.	Departed.	Discharged	Laded
Ansaldo San Giorgio II Peru. Salvador. Caribbean Cockoponset. Lake Ontario. Manavi. Newport. Jamaica. Geo. W. Elder.	National Navigation Society. Pacific Steam Navigation Co. Pacific Steam Navigation Co. Panama Railroad Cattle Industry. United States Shipping Board United States Shipping Board Pac fic Steam Navigation Co. Pacific Mail Steamship Co. Pacific Steam Navigation Co. Duncan Fox & Co.		January 13 January 13 January 15 January 15	250 672 3,000 2	Tona. 72

*Reported in last issue.

Notice to Mariners.-U. S. Naval Radio Station Puerto Obaldia in Operation.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., January 12, 1920.

CIRCULAR No. 643-69.

1. The U. S. Naval Radio Station Puerto Obaldia, located at Puerto Obaldia, on the Atlantic Coast of the Republic of Panama, two miles from the Colombian border (latitude 8° 56′ north, longitude 77° 40′ west), is now in operation. The station

2. Puerto Obaldia is operated by the U. S. Naval Communication Service and is prepared to handle U. S. and Panaman Government despatches free of charge. The station also handles commercial traffic at rates which may be obtained from the

Naval Radio Station, Balboa, C. Z.

3. The following daily schedule of watches will be maintained by Puerto Obaldia Radio; 6 to 8 a. m., 12 noon to 2 p. m.; 6 to 8 p. m. All messages for this station will be handled via Balboa Radio on above schedules, and those received at Balboa at any time outside of schedule can not be transmitted until the following schedule.

4. Messages for Puerto Obaldia, or other U. S. Naval Radio Stations in the Republic of Panama, may be filed at any of the Panama Railroad or Panama National Telegraph offices.

JAY J. MORROW, Acting Governor.

Notice to Mariners.-Speed of Vessels in Canal.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., January 13, 1920.

CIRCULAR No. 643-70 (superseding Circular No. 643-42):

1. By virtue of the authority conferred on me by paragraph 102 of the Executive Order of July 9, 1914, establishing Rules and Regulations for the Operation and Navigation of the Panama Canal and Approaches thereto, including all waters under its jurisdiction, vessels transiting the Panama Canal hereafter shall not exceed the following speeds:

	per hour
Colon to Gatun Locks	6
Gatun Lake, in the 1,000-foot channels	. 15
Gatun Lake, in the 800-foot channels	. 12
Gatun Lake, in the 500-foot channels	. 10
Rounding Bohio and Darien Bends	6
Gaillard Cut:	
Straight Reaches: Vessels 250 feet or more in length	. 0
Vessels less than 250 fect in length	. 8
Rounding Bends (all vessels) Slowest speed at which steerage way	7
can be maintained.	
Miraflores Lake:	
Slowest speed at which steerageway can be maintained.	
Vessels 360 feet or less in length and less than 20 feet draft shall not cross	3
Miraflores Lake in less than 15 minutes.	
Larger vessels shall not cross Miraflores Lake in less than 20 minutes.	
Vessels of exceptional size or displacement shall not cross Miraflores Lake	e
in less than 25 minutes.	
Miraflores Locks to Pacific entrance to Canal	. 6
Entering or leaving port	. 0
2. Increase to 8 knots in speed in Gaillard Cut, in the case of vessels le	ss than

2. Increase to 8 knots in speed in Gaillard Cut, in the case of vessels less than 250 feet long, does not alter the obligation imposed by regulations upon all vessels to reduce to lowest speed at which vessel can be steered, on occasion of approaching and passing vessels under way in narrow reaches, or vessels or other floating equipment when tied up, or under other circumstances, where a higher speed might introduce risk of damage.

JAY J. MORROW,

Acting Governor

Conversion of Liberty Bonds of First and Second Series.

The Liberty Loan Committee announce that forms for the exchange or conversion of Liberty Bonds of the first and second issues are ready for distribution. A supply has been sent to all departments and divisions. Additional copies can be obtained from the office of the Collector at Balboa Heights or from the Deputy Collector at Cristobal.

The cost of exchanging or converting is 50 cents for each \$100, this charge to cover all incidental expenses including insurance at

par value to and from Washington.

Bond owners who are using the privilege afforded them through the Liberty Loan Committee to have their bonds exchanged or converted should carefully read and comply with the instructions printed on the form, otherwise the bonds will be returned.

The privilege of exchange or conversion of bonds by the Liberty Loan Committee is provided exclusively for employees of The Panama

Canal or Panama Railroad Company.

District Dentist at Colon Hospital.

Dr. R. S. Morris (who has been acting as district dentist at Gatun during Doctor Urwiler's absence on leave) has been appointed district dentist at Colon Hospital, and is opening an office there.

Executive Order.

The area of land hereinafter described, to be known as Quarry Heights Reservation, situated in the Canal Zone, is hereby set apart and assigned to the uses and purposes of a military reservation under the jurisdiction of the Secretary of War; but said area shall be subject to the civil control and jurisdiction of the Governor of the Panama Canal, in conformity with the Panama Canal Act.

The boundaries of said reservation are described as follows:

The point of beginning is a brass plug in concrete monument #10, which is N. 1° 51 W., 711.4 feet, more or less, from Ancon triangulation station; the coordinates of Ancon station are Lat. 8°-57′ plus 2,572.76 feet, Long. 79°-33′ plus 883.65 feet; thence,
1. S. 76°-06′ E., 833 feet, more or less, to a brass plug in concrete monument *11;

thence,

2. S. 12°-40' E., 500 feet, more or less, to a brass plug in concrete monument \$1;

thence,
3. S. 55°-39′ E., 546 feet, more or less, to a copper plug in concrete monument **#2**,

thence

4. Along a line parallel with and 5.60 feet back from the curb line of the westerly side of Fourth of July Avenue, to a copper plug in concrete monument \$3; direct bearing and distance, \$2 to \$3, S. 38°-19′ W., 1,369 (eet, more or less; thence,

5. Along a line parallel with and 5.60 feet back from the curb line of the northerly side of the continuation of Fourth of July Avenue towards Fast Balboa, to monument

7. N. 18°-09' E., 214 feet, more or less, to a brass plug in concrete monument #6;

Along the contour of 150 feet elevation to a prass plug in concrete monument #7; direct bearing and distance, \$6 to \$7, N. 3'-27' W., \$67 feet, more or less; thence,

9. Along the contour of 150 feet elevation to a brass plug in concrete monument

\$8; direct bearing and distance, \$7 to \$8, N. 48°-21' W., 569 feet, more or less;

thence,

10. Along the contour of 150 feet elevation to a brass plug in concrete monument #9; direct bearing and distance, #8 to #9, N. 39°-36 E., 971 feet, more or less

11. S. 75°-58' E., 861 feet, more or less, to the point of beginning.

All bearings refer to the true meridian.

WOODROW WILSON.

THE WHITE HOUSE, 22 December, 1919.

[No. 3202.]

The above has been published as Panama Canal circular No. 601-100.

New Supply of Safety Deposit Boxes.

The Collector advises that 250 additional safety deposit boxes have been received and are now available for assignment. The boxes rent for \$1.50 a year, payable in advance and are available only to employees of The Panama Canal or Panama Railroad Company.

It is expected that employees who now have bonds on deposit for safe keeping in the Collector's office will rent these boxes for the safe keeping of their bonds and other valuable papers, and in the assign-

ments such depositors will be given the preference.

Applications should be made to the Collector at Balboa Heights.

Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

Facilities for Repair of Vessels at the Panama Canal.

The principal manufacturing and repair plant of The Panama Canal is located at Balboa, the Pacific terminal of the Canal. It is adjacent to an inner harbor, which has an area sufficient to permit access to docks, which aggregate 7,500 feet in length, including commercial docks, repair wharves, and coaling docks.

A much smaller plant is located at Cristobal, the Atlantic terminal, about one and one-half miles from the main commercial docks. The

following is a brief description of the plants:

THE BALBOA PLANT.

Dry dock and repair wharves-The dry dock is 1,000 feet long by 110 feet wide, with a depth of 35 feet over the blocks at mean tide. High tide varies from 3 to 11 feet above mean tide. The dock is served by a 50-ton traveling crane with an outside reach of 5 feet beyond the center line of the dock. This crane is also capable of traveling along the face of some of the repair wharves, thus facilitating the prosecution of repairs to vessels. At regular intervals along the coping of the dock are outlets for air, water, and electric service; either direct current or alternating current can be supplied, thus turnishing power for the auxiliary motors of ships in dry dock.

For ships which do not require dry docking, there are adjacent to the shops approxi-

mately 3,500 feet of repair wharves.

Repair shops-The repair shops are centrally located with respect to the dry dock and repair wharves. Ample track and crane service provide for handling work between

shops and ships.

The main metal working shops (machine, smithery, and boiler shop) are provided with 60-ton overhead traveling cranes, while the foundry has a 25 ton overhead crane. As all the shops are equipped with as complete a line of power tools as are generally found in an up-to-date repair shop, only the larger tools will be given special mention so as to give an idea of the maximum capacity of each department.

The machine shop is provided with a vertical boring mill capable of working 18

feet in diameter, with an open side extension planer 16 feet by 32 feet, and with a

lathe 120-inch swing by 65 feet between centers.

The smithery is provided with a 500-ton forging press with the necessary furnaces to handle any work that the press is capable of.

The boiler and ship fitting shops have a set of rolls capable of bending plates \(\frac{3}{4} \) inch

by 30 feet 1 inch by 24 feet, or 2 inches by 6 feet.

The pipe shop is outfitted for plumbing work and for pipe, copper, and sheet metal

work of the highest classes.

The foundry is equipped with a 2-ton tropenas converter and one 2-ton and one 1ton cupola, and the usual brass furnaces. It can turn out castings as follows: Bronze, brass or composition, \(\frac{1}{4}\)-pound to 1,000 pounds; iron, \(\frac{1}{4}\)-pound to 26,000 pounds; steel, 1-pound to 10,000 pounds.

The planing mill and joiner shop is outfitted with the usual woodworking machines, including a sawmill capable of handling timbers likely to be used in connection

with ship work.

The oxy-acetylene plant has portable electric-welding and oxy-acetylene cutting outfits capable of handling emergency repairs. The plant develops approximately 400 cubic feet of acetylene per hour, 5,000 cubic feet of oxygen per day, and 10,000

cubic feet of hydrogen per day.

The storehouses (under the control of the Supply Department) carry on hand a large stock of steel shapes, pipe, ship fittings, and supplies of every description. Steel plate is carried in stock in all thicknesses up to and including 2 inches. I'lates smaller than \(\frac{5}{6}\)-inch vary by sixteenths and plates larger than \(\frac{5}{6}\)-inch vary by eighths. The largest plates in stock are 72 inches by 10 feet by 2 inches thick. A large amount of steel billets is kept on hand in all sizes up to and including 24 inches by 24 inches by 19 feet. Structural shapes are carried as follows: Eyebeams, all sizes up to 27 inches; channels, all sizes up to 15 inches; ship channels, all sizes up to 12 inches; and angles, all sizes up to 8 inches by 8 inches by 3 inches.

In addition to the crane service heretofore mentioned, the services of two floating cranes with a capacity of 250 tons each are available at any time or place in the Canal

or terminal harbors.

CRISTOBAL PLANT.

This plant has less capacity than the Balboa plant and is intended for repairs of less importance. The activities of these shops are confined to three buildings, of somewhat temporary construction; one of which houses the machine shop, smithery; pipe shop, and power plant; another the boiler and shipfitter's shop; and the third, the wood-working shop. The tools are of less modern construction and of smaller capacity than those in use at the Balboa plant, few steps having been taken to modernize the plant pending more definite information as to exactly what the demands upon it will be. It is, however, capable of undertaking routine repairs to vessels; and, in emergencies, such parts as require larger tools than are available here can be shipped to Balboa to be machined.

There is available at this plant a small dry dock, originally constructed by the French and later extended by the Americans. This dock is now 300 feet in length, 50 feet in width, and has a depth over the blocks of 13 feet 6 inches at ordinary mean high tide. Adjacent to the shops and dry dock are approximately 2,000 feet of repair

wharves.

WORKING FORCE. -- COST OF REPAIRS. -- DOCKING CHARGES.

Practically all skilled mechanics on the Isthmus come from the United States, the unskilled labor being performed almost exclusively by West Indians. About 775 skilled men and 1,427 silver employees are employed at Balboa Shops, and about 180

skilled and 460 silver men at Cristobal shops.

The actual cost of repairs, as billed, compares favorably with that to be found in the United States. No contracts are made for work performed in the Canal shops. The charges are at actual shop costs plus a moderate percentage for general administrative expense and profit, and the total cost is believed to be less than in Asiatic of South American establishments, while in many cases it compares favorably with costs in the United States.

Charges for docking are in accordance with the following rates:

Men-of-war. Per displacement ton for docking and undocking For each lay day. Army and Navy transports, colliers, hospital ships, and supply ships, per gross	\$0.25 .15	\$0.15 .10
ton, Panama Canal measurement: For docking and undocking For cach lay day	°.25 .15	.15
Merchant steamers. Per gross ton, Panama Canal measurement: For docking and undocking. For each lay day.	.25 .15	.15 .10
Merchant sailing vessels. Per net ton, Panama Canal measurement: For docking and undocking. For each lay day. Minimum charge, when dock is pumped for exclusive benefit of one vessel and oc-	.25 .15	.15
cupied by a single vessel: For docking and undocking. For lay days.	200.00 120.00	75.00 45.00

Note—When a vessel whose tonnage is below the amount which at regular rates would equal the minimum rate above is docked at Cristobal with one or more other vessels, she will be charged \$60 for docking and undocking and \$30 for each lay day. When a vessel under the same conditions is docked at Balboa with one or more other vessels, or under other circumstances which involve no additional cost for pumping, a special rate will be charged dependent on circumstances but in no case less than the actual cost, exclusive of pumping, plus 10 per cent.

WORK PERFORMED.

As indicated by the facilities noted, the shops of the Canal are fitted to perform practically all classes of ship repair and construction, and are currently carrying on such work. The largest job performed by the shops has been the overhaul of five former German ships, brought to the Canal from Peru, where they had deteriorated considerably during internment and had suffered extensive damage at the hands of their crews. The extent and completion of this job have been noted in The Panama Canal Record. The aggregate gross tonnage of these ships was 32,831. The next largest job has been the remodelling of the steamship Cristobal of the Panama Railroad Steamship Line, with change from coal to oil-burning and extension of passenger accessive damage at the second coal to oil-burning and extension of passenger accessive.

commodations, as well as the overhaul of hull and machinery.

During the fiscal year 1919, a coast guard cutter, the Manhattan, 120 feet 3 inches in length, over all, by 24 feet in molded breadth, was completed at Balboa shops, materials and machinery for the vessel having been sent from the United States. The Konigin der Nederlanden was converted into a troopship. The Santa Isabei was repaired after having been on a reef, and extensive changes to the propelling machinery were made. The Heina, which had been recovered after being ashore, was give a general overhauling, which included the renewal of several bottom plates, straightening other plates, and a thorough cleaning out of the condenser. Old boilers were removed and new boilers installed on the steamship Quoque. Three new furnaces were installed in the U. S. S. Yorktown. Extensive work was done on the motor schooners Elizabeth Ruth and Evelyn, including the gas engines. Fifty 1,800-pound cast steel anchors were made for the United States Navy.

At the Cristobal shops extensive repairs were made to the steamships Allianca, Balboa, Clairmont, Advance, and Colon, and the dredges No. 83 and No. 86, in addition to many running repairs made on the variety of ships calling at Cristobal.

Marine work amounted to 54.14 per cent of the work performed by Balboa shops during the last fiscal year. Work for the Panama Railroad was 26.56 per cent of the total, manufacturing work 10.50 per cent, and sundry work, 8.80 per cent. During the preceding fiscal year the percentages were: Marine, 46.12; Panama Railroad, 23.11; manufacturing, 16.19; miscellaneous, 14.58.

Ancon District Dentist.

Dr. John L. Richards has been appointed District Dentist, Ancon, and has opened his office over the Ancon Dispensary.

Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified positions on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286). Age limits do not apply to persons entitled to preference because of military or naval service:

Captain of the civilian guard or chief of police (male and female); \$1,800 to \$2,400 a year; February 3, 1920; No. 25-amended; form 1312; age, 20 years but not 55 years **.

Purchase agent (male and female); \$2,000 a year; February 18, 1920; No. 57; form 1312; age, 21

referred agent that the series of the series of the series and female); \$1,800 to \$2,100 a year; February 10, 1920; No. 58; form 1312; age, 25 years but not 55 years.*

Transitman for road surveys (male and female); \$1,200 to \$1,800 a year; February 10, 1920; No. 58; form 1312; age, 22 years but not 55 years.*

58; form 1312; age, 22 years but not 55 years.* 58; form 1312; age, 22 years but not 55 years.*
Highway draftsman (male and female); \$1,200 to \$1,800 a year; February 10, 1920; No. 58; form
1312; age, 20 years but not 55 years.*
\$1312; age, 20 years but not 55 years.*

20 years and over.* age, 20 years and over.*

Mechanical draftsman (male and female); Grade 1, \$800 to \$1,400 a year; form 1312; age, 18

years and over. Mechanical draftsman (male preferred); Grade 2, \$1,400 to \$1,800 a year; form 1312; age, 18 years

and over. † Mechanical draftsman (male preferred); Grade 3, \$1,800 to \$2,500 a year; form 1312; age, 18 years

And over.†

Special instructor in occupational therapy (male and female); Grade 1, \$1,200 to but not including \$2,000; Grade 2, \$2,000 to \$3,500 a year.†

Reconstruction aide (male and female); \$720 to \$960 a year with temporary increase of \$20 a month granted by Congress; form 1312; age, 22 years but not 45 years.†

Field supervisor of reconstruction aides in occupational therapy (male and female); \$1,800 a year;

Superintendent of aides in occupational therapy (male and female); \$2,400 a year; February 17,

Superintendent of aides in occupational therapy (male and female); \$2,400 a year; February 17, \$1920.*

Technical instructors (male and female); February 24, 1920; form 1.312; age, 21 years and over*
Chief Machinist instructor, \$2,000 to \$2,200 a year; instrument maker instructor, \$2,000 to \$2,200
a year; blacksmith instructor, \$2,200 to \$2,400 a year; welder instructor, \$2,000 to \$2,400 a year;
woodworking instructor, \$2,000 to \$2,200 a year; electrical instructor, \$1,800 to \$2,000 a year;
arburetor instructor, \$1,800 to \$2,000 a year; year; electrical instructor, \$1,800 to \$2,000 a year;
arburetor instructor, \$2,200 to \$2,400 a year; small arms instructor, \$1,800 to \$2,000 a year;
artillery armorer instructor, \$2,200 to \$2,400 a year; saddlery instructor, \$1,800 to \$2,000 a year;
explosives instructor, \$1,800 to \$2,000 a year;
accountant instructor, \$1,800 to \$2,000 a year;
draftsman instructor, \$2,000 to \$2,400 a year; painting instructor, \$2,000 to \$2,400 a year.

† Nonassembled. Applications will be received at any time until further notice.

Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Goldburne Callendar James Chambers	51911 36044	Barbados	Colon	Panama Railroad Municipal Engineering.	January 1 1920. January 14, 1920.
Nicanore Kiros or Qui-		Panama	Bohio	Cattle Industry	December 30, 1919.
Joseph Robinson Albert Romain alias	22627	Jamaica	Panama		December 28, 1919
Homey	134989 52555		Panama Colon	Cattle Industry R. & F. Agent	January 3, 1920. September 22, 1919.

Date given for nonassembled examinations is the last day for filing applications, Nonassembled. and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

Official Circulars.

Absence from Quarters.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., January 6, 1920. To all concerned—Attention is called to paragraph 19 of Circular No. 627-24, dated June 3, 1919, reading as follows:

'Periods of less than 10 days will not be charged

against absence from quarters. Employees will be required to notify the district quartermaster at expiration of leave period and on date they re-occupy quarters of the total time absent during that period.'

It has been brought to the attention of this office It has been brought to the attention of this office that employees have not been complying with this regulation, and in order to make sure of its enforcement in future, form postcards with blanks for the desired information will be handed to employees returning from leave of absence by the District Quartermaster at Cristobal. This form should be filled out and immediately forwarded to the proper district quartermaster. to the proper district quartermaster.

JAY J. MORROW, Acting Governor.

Railroad Tickets for Baseball Clubs.

PANAMA RAILROAD COMPANY, Office of Superintendent, Balboa Heights, C. Z., January 17, 1920.

To all concerned—Authority is granted for the sale of reduced rate second-class transportation on the Panama Railroad for not to exceed 15 memthe Panama Railroad for not to exceed 13 members of a duly organized baseball club for use on Sundays and holidays only when competitive public games are to be played.

Two special tickets, form AI-566–Revised, will be sold on this authoriziation at the following rates for the two tickets:

U.S.C. Between Colon and Panama and return. Between Colon and west side stations and

1,00 Between Colon and Gatun and return... Between Panama and Paraiso and return. Between Panama and Las Cascadas and .25 . 25

return Special written authority, signed by the Executive Secretary must be presented to the agent each time when transportation is purchased the manager or captain of the team, whose sig-nature will appear thereon, and who must countersign the transportation when issued, and likewise countersign the agent's stub.

> S. W. HEALD. Superintendent.

Joint Commission.

Rules of Dismissal.

Rules of Dismissal.

In the matter of the claim of Tomas Reina, Luis Reina, Alfonso Bracho, Nicolas Bracho, et al, in which rule of default has been entered, rule of dismissal No. 447, in docket No. 3277, January 13, 1920—On April 13, 1916, the Joint Commission, with the approval of the two Governments, parties to the Treaty, adopted a rule relative to the continuance or dismissal of claims in which the claims are set for hearing, or who fail to appear for hearing. This rule provides for the entering of a rule of default against claimants who fail to appear when called. This rule also provides that:

"Upon the entry of such rule of default, notice thereof shall be given by four successive publica-tions, one each week, in the Engl.sh and Spanish languages, in newspapers of general circulation in the Republic of Panama, notifying such claimants to appear in person or by attorney within sixty (60) days from the first of said publications and show good and sufficient cause why such default should be set aside, and take active steps

default should be set aside, and take active steps to prosecute their claims, and failing to so appear within 60 days from said first publication their claims will be considered as having been either settled or abandoned, and the same will be dismissed and forever barred."

In the claim of R. S. Arcia, Eusebio Morales, Ricardo Arias, et al., docket No. 3277, the evidence before the Commission is that direct settlement has been made with all the claimants in this case with the exception of Tomas Reina, Luis Reina, Alfonso Bracho, and Nicolas Bracho. The claim of the said Tomas Reina, Luis Reina, Alfonso Bracho, and Nicolas Bracho was therefore set for hearing on November 12, 1919. There was no appearance on the part of claimants no was no appearance on the part of claimants nor counsel for claimants, and a rule of default was accordingly entered against them.

Due notice having been given as provided for in the above-quoted section of the rule of the Commission, and there having been no appearance by claimants in person or by counsel during the 60-day period fixed in the rule referred to, which began on November 13, 1919, the foregoing claim against the United States is hereby dismissed and forever barred.

Julio J. Fabrega, Burt New, Federico BOYD, GEORGE A. CONNOLLY, Commissioners.

In the matter of the claim of Juan Dutary de Alba, in which rules of default have been entered, rule of dismissal No. 448, docket Nos. 2.65, and 2766, January 16, 1920—On April 13, 1916, the Joint Commission, with the approval of the two Governments, parties to the Treaty, adopted a rule relative to the continuance or dismissal of claims in which the claimants are not ready for trial on the date their claims are set for hearing. or the date their claims are set for hearing, or who fail to appear for hearing. This rule provides for the entering of a rule of default against claimants who fail to appear when called. This

rule also provides that:
"Upon the entry of such rule of default notice thereof shall be given by four successive publica-tions, one each week, in the English and Spanish languages, in newspapers of general circulation in languages, in newspapers of general circulation in the Republic of Panama, notifying such claim-ants to appear in person or by attorney within sixty (60) days from the first of said publications and show good and sufficient cause why such default should be set aside, and take active steps to prosecute their claims, and failing to so appear within sixty days from said first publication their within sixty days from said first publication their claims will be considered as having been either settled or abandoned and the same will be dismissed and forever barred."

In the claims of Juan Dutary de Alba, docket Nos. 2765 and 2766, set for hearing on November 14, 1919, there was no appearance on the part

of claimant nor counsel for claimant, and a rule of default was accordingly entered against him.

On January 6, 1920, counsel representing the claimant in the above-entitled claims filed a motion to set aside the default in the two cases in question, but in view of his failure to show good and sufficient cause why these defaults should be set aside, his motion was denied.

Due notice having been given as provided for the control of t

in the above-quoted section of the rule of the Comin the above-quoted section of the rule of the Commission, and there having been no appearance on the part of claimant during the 60-day period fixed in the rule which began on November 16, 1919, and counsel for claimant having failed to show good and sufficient cause why the default should be set aside as provided for in the rule referred to, the foregoing claims against the United States are hereby dismissed and forever barred.

FEDERICO BOYD, BURT NEW, R. J. ALFARO. GEORGE A. CONNOLLY, Commissioners.

Certificate of Disagreement.

In the matter of the claim of Joseph Lefevre, In the matter of the team of Joseph Levere, as attorney in fact for Francisco de la Ossa, Maria Ossa de Amador, Amelia Ossa de Levere, Manuela Ossa de Levis, and Mrs. A. B. de la Ossa, and Marrio Galindo, for property known as "La Iseca," certificate of disagreement, rule No. 435, docket

No. 1742, November 11, 1919—Pursuant to the provisions of Article XV of the Treaty between the United States of America and the Republic of Panama, ratified February 26, 1904, the Commission hereby desires to bring to the notice of the Umpire duly appointed under the said Treaty that the Commission has been unable to reach an agreement in the above-entitled matter on the

following, to wit:

1. The location of the land involved, from the

evidence presented to the Commission;
2. The area of the land involved, from the evi-

2. The area of the land involved, from the evidence presented to the Commission;
3. The value of the land involved, from the evidence presented to the Commission;
4. The jurisdiction of the Commission to determine the question of title, if any, as between the claimants and the Panama Railroad Com-

The Commission herewith certifies this disagreement to the Umpire appointed under the Treaty as provided for in Article XV thereof. Done at the National Palace, Panama, this eleventh day of November, 1919.

FEDERICO BOYD, GEORGE A. CONNOLLY, BURT NEW, JULIO J. FABREGA, Commissioners.

Misdirected Letters.

BALBOA HEIGHTS, C. Z., January 20, 1920. The following insufficiently addressed mail has been received in the office of the Director of Posts and may be obtained upon request of the addressee. Request may be made by telephone, calling

No. 812, Balboa: Anderson, J. Harold Andrews, Miss Rosa Barnes, T. A. Bayless, Captain Bettley, Mrs Wm. J. Bowes, Steve* Burke, Eddie Christopher, Elizabeth Christopher, Elizabeth Chesser, H. C. Clausen, Mrs. Elizebet Compton, Rolla Craddock, B. F. Darcy, James J.
Ezque, Mrs. John*
Gilmeister, P.
Gompf, Mr. & Mrs. A. P. Greeley, Horace Groshup, H. C. Hams, Clifford J.† Harris, Mr. and Mrs. Chris.*

McDade, G. F. McDonald, Miss E.* McKelverg, Mrs. E. Moore, Richard Nelke, Susan H. Nord, John W. Owen, Mr. and Mrs. Harry* Parson, Mrs. E. W.* Pruner, Roy G. (2) Qansyng, D. Rabyohas, Joel M. Reilly, James C. Reston, William Reymonds, Mrs. Thos. Roach, Thomas Rousseau, S. W.* Tighe, Miss Emma M. Trainor, E. J. Vessey, A. J.* Wang, Manuel L.* Walsh, Mrs. J. J. Whittle. Witt, Miss E.

Lothian, Miss M. V.* McClain, Mr. and Mrs.

Louis

Lamaj, J. Lembach, Carl* Long, Miss Harriet *Card. †Parcel.

Hyler, Mrs. Walter* Karstok, Miss Krusi, Mrs. Robert

Administrator's Sale.

The Administrator of Estates, room 301, Administration Building, Balboa Heights, will accept written bids up to 2 p. m. Saturday, February 7, 1920, for the purchase of a wooden tool box and a lot of electrician's tools belonging to the estate a lot of electrician's tools belonging to the estate of Frank R. Jay, deceased American employee. Itemized lists of the articles offered for sale will be found posted at Canal Zone post offices and clubhouses, and persons desiring to examine the property may do so on business days, until 4.30 p. m., January 24, at room 203, Terminal Building, Cristobal, and after that date at the Administrator's office, Balboa Heights. Bids may embrace the entire collection, or be limited to single items. They should be submitted to the Administrance. thems. They should be submitted to the Administrator of Estates in sealed envelopes, marked "Bid on effects of Frank R. Jay, deceased."

The Administrator reserves the right to reject any or all bids, and no advance deposit of money is required.

page from VESSELS.—Continued OCEAN OF

	For.	New York. San Juan, P. R. Colombian ports. Colom. New York and Kingston. New York and wayports. San Juan, P. R. New York and wayports.			Tacoma. Valparaiso.	
*DEPARTURES.	Line.	Panama Railroad Steamship Line. New York. French Government. United Fruit Co United Fruit Co United Fruit Co United Fruit Co Vew York United Fruit Co Vew York French Government. Fruit Gruit Co Vew York Fruit Go Vew York Fruit Go Vew York New York Fruit Go Vew York New York Fruit Go Vew York Fruit Go Fruit Go.		*DEPARTURES.	January 14 Lake Elkwater United States Shipping Board. Tacoma. January 14 Joan of Arc Rolph Navigation and Coal Co Valparais	Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.
	Vessels.	Allianca C-41 Tivives Arabia (0) Carrillo Parismia C-47 Calamares			Lake ElkwaterJoan of Arc	asis and all hours great
-	Date.	January 14 January 15 January 15 January 15 January 15 Arabia (Aprile) January 15 January 15 January 16 January 16 January 16 January 16 Calamary 16	3ALBOA.		January 14 January 14	the 24-hour be
	From.	Cartagena. Norfolk. Norfolk. New York via Kingston. New York and wayports. New York and wayports. New York and watports. Liverpool via Cartagena. New York via Haiti.	PORT OF BALBOA.		Corinto. Vancouver. San Francisco.	Hours are expressed or
*ARRIVALS.	Line.	Panama Railroad Cattle Industry. United States Shipping Board. New York via Kings W. V. N. Powelson. United Fruit Co. New York and Warp Panama Railroad Steamship Line. Catagena. Catagena		*ARRIVALS.	Panama Railroad Cattle Industry Corinto. Rolph Navigation & Coal Co Vaneouver. Cia. Refineria Azuear. San Francis	b the Canal.
	Vessels.	January 13. Middlebury. January 14. Battonville. January 14. Tirvee. January 15. Calamares. January 15. Calamares. January 15. Carillo. W. Gochals. January 15. Asian.			January 12 Caribbean. January 14 Joan of Are. January 17 George W. Elder.	*Other than ships passing through the Canal.
	Date.	January 13 January 14 January 14 January 15			January 12 January 14 January 17	*Other th

Stages of the Chagres and the Lakes.

The maximum elevations of the Chagres River, Gatun Lake, and Miraflores Lake, in feet above mean sea level, during the four weeks ending at midnight of Saturday, January 10, were as follows:

	Chagre	s River	Gatur	Mira-	
Date	Vigia	Alha- juela	Gam- boa	Gatun	flores Lake
San., Dec. 14	127 25	92.06	87.17	87.05	53.88
Men., Dec. 15		92.45	87.18	87.09	54 29
Tues., Dec. 16		92.57	87.18	87.00	54.50
Wed., Dec. 17		92.10	87.16	87.00	54.10
Thurs., Dec. 18		92.07	87.09	87.00	54.05
Fri., Dec. 19		91.92	87.14	87 00	54 20
Sat., Dec. 20		92 23	87 12	87.00	54 40
Sun., Dec. 21	127.20	92.00	87.14	87.00	54.40
Mon., Dec 22	127.10	91.92	87.13	87.00	54.17
Tues., Dec. 23	126.90	91.83	87.11	87.00	54.48
Wed., Dec. 24	126.90	91.74	87.13	87.00	54.54
Thurs., Dec. 25		91.74	87.15	86.99	54.54
Fri., Dec. 26	126.80	91.64	87,12	86.98	54.15
Sat., Dec. 27	126.80	91,60	87.08	86.99	54.18
Sun., Dec. 28	[126.75]	91.60	87.12	86.98	54.70
Mon., Dec. 29	126.75	91.56	87.07	86.97	54.09
Tues., Dec. 30	126,75	91.59	87.07	86.94	54.40
Wed., Dec. 31		91.5	87 00;	86.91	53.80
Thurs., Jan. 1	126 65	91.52	86.98	86.89	53.75
Fri., Jan. 2	126.60	91.46	87.00	86.88	53 95
Sat., Jan. 3	126.60	91.40	86.96	86.86	54.23
Sun., Jan. 4		91.39	86.95	86.80	54.39
Mon., Jan. 5	126.50,	91.39	86.90	86.76	54 00
Tues., Jan. 6	126.80	91.50	86.86	86 76	54.50
Wed., Jan. 7	127.25	92.00	86.82	86.73	54.22
Thurs., Jan. 8	126.80	91.71	86.85	86.70	54.27
Fri., Jan. 9	126.60	91.52	86.78	86 68	54.32
Sat., Jan. 10	126.60	91.85	86.75	86 63	54.60
Height of low wate to nearest foot	126.0	91.0			

Sale of Tug "Miraflores."

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10.30 a m., March 22, 1920, and then opened, for the purchase of the tug Mirafores. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

Additions to Commissary Stock.

Dry Goods Section. Bedspreads, cotton, hemmed, 70" x 90", ea \$2.03 Bedspreads, cotton, hemmed, 70" x 90", ea 2.15 Chemises, envelope, embroidered Philip-2.20 1.25 pine, ea. pine, ea.
Damask, table, unbleached, 63", yd.
Damask, table, unbleached, 63", yd.
Damask, table, unbleached, 63", yd.
Handkerchiefs, ladies', fancy, 3s, pkg..
Napkins, linen damask, H. S., 15" x 15", 1.05 .40 ea.
Napkins, linen damask, H. S., 15"x 15", ea
Napkins, linen damask, H. S., 15"x 15", ea
Napkins, damask } size, ea.
Napkins, linen damask, H. S., 15"x 15 , ea
Nightgowns, embroidered Philippine, ea.
Sheeting, linen, 80", yd.
Sheeting, linen, 54", yd.
Stationery: .49 .65 ,83 .84 . 45 2.95 1.70 Stationery: Paper, writing, with envelopes, box....
Paste, library, photo, jar.....
Pens, stylographic, No. 4, ea..... .55 Grocery Section. .15 .14 .50 .74

Tongue, beef, 2s, tin.....

Hotel Aspinwall Launch Schedule.

Following is the schedule of launch service maintained by the Supply Department between Balboa and the Hotel Aspinwall on Taboga Island:

	Daily
	Duny

Leave Port Captain's boat landing, near dock 19	10.00 a. m.
Leave Taboga	8.00 a. m.
Sundays and holidays.	
Sundays and holidays.	
Leave dock 19, Balhoa	10.00 a. m.
Leave Taboga returning	11.30 a. m.
Leave dock 19, Balboa	
Leave Taboga returning	6.00 p. m.
Saturdays and days preceding holidays.	
Leave dock 19, Ballioa	10 00 a. m.
Leave Taboga returning	11.30 a. m.
Leave dock 19, Balboa	
Returning from Taboga the following day	8.00 a. m.
Fares (each way)—Employees, 35 cents; nonemployees, 60 cents;	children of

employees over 6 and under 12 years old, 25 cents; of nonemployees, 40 cents. Hotel patrons desiring to send trunks should arrange to have them delivered at the launch landing by 9.30 a. m., addressed to themselves, care of Hotel Aspinwall. Freight will be transported on the a. m. trip on Mondays, Thursdays, and Saturdays.

For further information address Manager, Hotel Aspinwall, Taboga, via Balboa, C. Z.

CCMMISSARY NOTE.

Lingerie.

Advices recently received from the Commissary Purchasing Agent are to the effect that on items of lingerie on requisition in the United States, deliveries can not be made as promised. The manufacturers state that this delay is caused by shortages of raw material and labor trouble,

THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address
The Panama Canal Record, Balboa Heights, Canal Zone, or
The Panama Canal, Washington, D. C.
Entered as second-class matter February 6, 1918, at the Post Office
at Cristobal, C. Z., under the Act of Mach 3, 1879.



No. 24.

Volume XIII.

Balboa Heights, C. Z., January 28, 1920.

Visit of the "Jeanne d'Arc."

The French cruiser Jeanne d'Arc, an active participant in naval operations during the world war, arrived at Cristobal on January 26. On the following day the officers were taken to Gatun Locks on a special train, and later brought through the Canal from Gatun to Balboa on two subchasers, furnished by the Commandant, 15th Naval District, as guests of the United States. Other entertainments by the Government and the Government of Panama are planned for January 28; on the 29th a reception will be given aboard the cruiser at Cristobal, and her departure is scheduled for the 30th.

Steamship Sunk by Submarines to Extinguish Fire in Cargo.

The most spectacular and costly marine accident which has occurred at the Canal since it has been in operation, resulted from an explosion in the number 3 hold of the American steamship Marne on the afternoon of January 24, while she was reloading part of her cargo at pier 11, Cristobal. The explosion was immediately followed by fire. On her way to the Canal the Marne had experienced trouble with her telegraph and on arrival made application to discharge part of her cargo at one of the terminal piers in order that the trouble might be located and remedied. She carried 8,000 tons of general cargo, bound from New York to Melbourne. In the cargo was 160,000 cases gasoline and benzine and in her tanks about 1,700 tons of fuel oil. The fire of this inflammable material being beyond the control of the terminal fire engines and fire tugs, the ship was towed away from the pier and sunk in shallow water. The great heat made it impossible to sink the vessel by opening cocks below the water line and she was sunk by shots from two of the Navy submarines. Fifty-four shots were fired from 3-inch guns. Armor-piercing shells were used first, fired into the vessel amidships. The holes they made were not large enough to admit water rapidly, and about 6 shrapnel shells were fired into the stern which pierced the hull and the Marne settled and sank in about 40 feet of water, inside the breakwater, about a mile from the outer end. After sinking, her decks were awash and the oil floating on the top continued to burn, protected against the action of the monitors on the fire tugs by the ship's superstructure. Cases of gasoline and benzine on fire floated away from the ship and spread out over the harbor for a distance of half a mile. At night, these were a lurid and unusual sight. The fire continues but is gradually exhausting itself and is causing no danger to other property.

The Marne is a vessel of 6,869 gross and 4,885 net tons, 395.5 feet in length by 55 feet beam, with a depth of 31.4 feet, and was built in 1919 for the United States Shipping Board by the Federal Ship Building Company at Kearny, New Jersey. She was in the service of the New York and Australia Line. Investigation is being made of the

extent of damage and the probabilities of salvage.

CANAL WORK IN DECEMBER.

The following is the report of the Governor to the Secretary of War, of Canal work in the month of December, 1919:

BALBOA HEIGHTS, C. Z., January 26, 1920.

The Honorable, the Secretary of War, Washington, D. C.

SIR: I have the honor to submit the following report of The Panama Canal for the month of December, 1919.

CANAL TRAFFIC.

The number of ocean-going commercial vessels passing through the Canal during the month was 260, not including 14 United States Government vessels, as follows: Five destroyers, 2 colliers, 1 Navy tender, 1 Navy tug, 1 mine sweeper, 1 fuel ship, 2 transports, 1 Army dredge; also 7 merchant ships with coal and supplies for the Army and Navy and The Panama Canal.

The month's traffic is classified in the tabulation following. The net tonnage of the 260 commercial vessels totaled 927,726 tons, Panama Canal measurement, 330,588 tons in excess of the previous month's traffic, when 180 commercial vessels aggregated 597,148 tons. Their registered gross tonnage was 1,203,316 tons, and registered net tonnage, 759,699 tons. The cargo carried aggregated 924,479 tons of 2,240 pounds, exceeding the November cargo by 348,999 tons. Of this month's traffic, 4,129 tons

were carried as deck cargo.

New records for a month's business in total number of vessels passing through the Canal, the number of commercial vessels, tolls, tonnage, and cargo carried, were established this month. Previously the month of greatest commercial traffic was May, 1918, when 200 vessels of 664,827 net tons with 775,357 tons of cargo passed through. A previous high record for the total number of ships transiting the Canal, including both commercial and government owned vessels, was July, 1919, with 234 ships. This month the total number of all vessels was 281.

ships. This month the total number of all vessels was 281.

The aggregate length of the 260 commercial ships through the Canal in December was 91,954 feet; aggregate beam, 12,651 feet; and draft, 5,466 feet. The average length of these vessels was 354 feet, average beam 49 feet, and average draft in salt water 21 feet; their average tonnage was: Panama Canal net, 3,658; net United States equivalent, 3,008; registered gross, 4,630; and registered net, 2,923

tons.

The United States coastwise trade was made up of 22 vessels aggregating 102,314 tons, Panama Canal net measurement, carrying 133,773 tons of cargo. That from the Atlantic to the Pacific Coast comprised 9 vessels with a total Panama Canal net tonnage of 39,436, carrying 52,764 tons of cargo. From the Pacific to the Atlantic this trade was carried in 13 vessels with a total Panama Canal net tonnage of 62,878 with 81,009 tons of cargo.

PRINCIPAL COMMODITIES.

Bulk shipments consisting of whole cargoes of the different principal commodities included in the month's traffic were as follows:

FROM ATLANTIC TO PACIFIC.

Commodity.	No. of cargoes.	Tons.	Total tons.	From—	То—
Crude oil. Crude oil. Crude oil. Crude oil. Crude oil. Crude oil. Case oil. Case oil. Case oil. Coal.		17,388 9,500 9,000 8,000 7,135 15,767 5,400 8,000 10,546 3,083 3,205 8,211 7,234	51,023 29,167 32,379 4,003 5,900 8,092	Puerto Lobos. Puerto Lobos. Puerto Lobos. Puerto Lobos. Tumpico. Tuxpan. New York. New York. Port Arthur Norfolk. Norfolk. Norfolk. Norfolk. Norfolk. Baltimore. Sabine Amsterdam.	Iquique.

FROM PACIFIC TO ATLANTIC.

Commodity.	No. of cargoes.	Tons.	Total tons.	From—	То
Nitrate	1	2,716		Iquique	Alicante.
Nitrate	1	7,022		Taltal	Baltimore.
Nitrate	2	16,203		Taltal	Charleston.
Nitrate	1	5,906		Taltal	Cristobal (for orders).
Nitrate	1	6,450		Taltal	Valencia.
Nitrate	2	14,574		Mejillones	Cristobal (for orders).
Nitrate	1	4,100		Mejillones	Bilbao.
Nitrate	1	8,500		Mejillones	Antwerp.
Nitrate	1	6,661		Mejillones	Aarhus.
Nitrate	1	4,422		Antofagasta	Cristobal (for orders).
Nitrate	1	- 8,651	1	Antofagasta	Philadelphia.
Nitrate	1	8,200		Antofagasta	Dunkirk.
Nitrate	1	5,336		Antofagasta	San Juan, P. R.
Nitrate	1	1,800		Valparaiso	New York.
Nitrate	1	2,712		Caleta Buena	New Orleans.
Nitrate	i	7,650		Caleta Colosa	Rotterdam.
Nitrate	1 1	3,500	163.272	Tocopilla	Cristobal (for orders).
Floar	3	25,229		Tacoma	New York.
Flour	2	15,488		Seattle	New York.
Flour	2	13,128		Portland	New York.
Flour	2	13,364	67,209	San Francisco	New York.
Lumber	2	2,953	01,200	Portland	United Kingdom.
Lumber	i	1,821		Seattle	Neuvitas.
Lumber	1	1,803		Seattle	West Hartlepool.
Lumber	1	1,841		Seattle	Nipa, Cuba.
Lumber	1	2,822		Vancouver	Norfolk.
Lumber	3	9,178		Vancouver	Queenstown.
Lumber	1	5.917		Frazer Mills	Queenstown.
Lumber	1	2,205		Nanoose	Queenstown.
Lumbon	1	779		San Diego	Queenstown.
Lumber	1		31,972	Alberni	Queenstown.
	1	2,653		San Francisco	Philadelphia.
Lubricating oil	1	0.010	11,000	Valparaiso	Ipswich.
Barley	1	6,210	0.272		
Barley	1	3,163	9,373	San Francisco	Leitii.

LATIN-AMERICAN TRAFFIC.

Commercial vessels passing through the Canal en route to the west coast of Central and South America were classified as follows:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
United States. British Japanese Spanish Norwegian Chilean Peruvian Italian Braziliaa Swedish Dutch	41 17 8 6 4 4 3 3 1	159,468 44,005 40,495 21,212 23,603 11,035 12,468 15,584 6,692 3,769 6,899	99,109 25,151 26,045 14,045 14,830 6,729 6,677 9,657 4,126 2,853 4,417	118,352 31,658 29,702 16,687 19,540 9,529 7,845 11,285 6,294 4,001 6,653	Tons. 50,287 10,736 12,110 18,500 4,917 2,615 1,190 4,200 539
Total	89	345,230	213,639	261,546	105,634

Of the 89 vessels above, 47 passed through the Canal in ballast; 27 from the United States, 5 from Great Britain, 5 from Spain, 5 from the Atlantic terminus of the Canal, 2 from France, 1 from Canada, 1 from Holland, and 1 from Italy. The remaining 42 laden vessels were en route from, and carried the following cargo: Seventeen from the United States with 49,751 tons of general cargo; 16 from the Atlantic terminus of the Canal with 11,192 tons of general cargo; 4 from Mexican ports with 33,635 tons of fuel oil; 2 from Great Britain with 5,127 tons; 1 from Italy with 1,190 tons; 1 from Norway with 4,200 tons; and 1 from Holland with 539 tons, all general cargo. This trade from the west coast of Central and South America for the month is

shown as follows:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
United States. British Chilean Norwegian Spanish Peruvian Dutch Japanese	5 3 2 1	\$7,630 72,329 21,237 32,961 17,138 13,783 12,755 5,447 4,680	56,557 43,713 13,832 20,900 10,815 7,590 8,191 3,406 2,850	65,965 54,927 18,845 25,385 12,778 8,454 9,465 4,295 3,593	Tons. 102,039 66,325 19,308 17,066 24,546 8,060 16,216 7,500 2,312
Total		267.960	167.854	203.707	263.372

Four of the above 62 vessels were in ballast and 58 with cargo. Twelve were en route to United States ports with 62,599 tons of cargo, 36,388 tons of nitrate and 26,211 tons of general commodities; 7 to Great Britain with 49,335 tons of general cargo; to Spain with 22,066 tons of nitrate; 2 for France with 14,529 tons of nitrate; 2 for Belgium with 14,700 tons nitrate; 2 for Holland with 16,216 tons nitrate; 1 for Denmark with 6,661 tons nitrate; 1 for Italy with 2,312 tons nitrate; 1 for Porto Rico with 5,336 tons nitrate; 16 completed voyages at Cristobal discharging

21,496 tons of general cargo for transshipment; 10 others, 8 with 44,710 tons of nitrate and 2 with 3,418 tons of general cargo, received sailing orders at this point for different ports. The 4 vessels in ballast were all oil tankers en route to Tampico.

Fifty-one vessels controlled by the United States Shipping Board passed through the Canal during the month; these had a total Panama Canal net tonnage of 175,876 and carried 222,257 tons of cargo. Twenty-nine passed from the Atlantic to the Pacific with an aggregate net tonnage of 87,897 with 99,800 tons of cargo; 22 passed through from the Pacific to the Atlantic with a total net tonnage of 87,979 carrying 122,457 tons of cargo. Two were northbound in ballast and 10 southbound.

PRINCIPAL TRADE ROUTES.

Traffic for the month was distributed according to the principal trade routes as follows:

		Total vess	els.		ssels in allast.
	Ves- sels.	Panama Canal net tonnage.	Cargo.	Ves- sels.	Panama Canal net tonnage.
Atlantic to Pacific. United States to west coast of South America Cristobal to west coast of South America Europe to west coast of South America Europe to west coast of South America United States to Australia and New Zealand. United States to Far East. United States to Far East. United States to Honolulu Europe to west coast of United States Mexico to west coast of South America Mexico to west coast of United States Europe to Australia and New Zealand West Indies to west coast of South America Canada to Australia and New Zealand Europe to Canada (British Columbia) Cristobal to west coast of United States. Cristobal to west coast of Central America Miscellaneous*	36 19 21 5 9 18 11 3 4 2 2 2 1 1 1 1	110,881 31,047 80,535 26,296 39,486 65,784 47,955 13,830 19,932 11,219 14,286 9,598 3,374 5,532 4,415 1,602 700	Tons. 30,863 10,172 16,193 33,210 52,764 104,273 75,829 12,092 33,635 17,388 9,000	24 4 15 1 2 1	80,380 5,774 55,183 4,141 9,598 3,374 4,415
Total	140	487,114	405,697	51	163,565
West coast, South America to Cristobal† West coast, South America to Europe United States coastwise West coast, South America to east coast of United States. West coast, South America to east coast of United States. West coast, United States to Europe. Canada to Europe. Australia and New Zealand to Europe West coast, South America to Mexico. Far East to east coast of United States. Australia and New Zealand to United States West coast, United States to Cuba. West coast, United States to Ouba. West coast, United States to Mexico. Australia and New Zealand to Canada (east coast) West coast, South America to Porto Rico. Honolulu to east coast of United States. West coast, Central America to Cristobal West coast, Central America to United States Miscellaueous;	26 19 13 13 13 77 9 4 2 2 2 1 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1	56,589 83,307 62,878 49,319 36,110 15,397 55,175 21,148 10,398 10,447 3,961 12,065 5,431 2,813 5,298 1,692 692 531 7,451	69,422 125,819 81,009 62,519 52,708 21,465 50,315 17,396 12,511 3,662 7,403 5,336 7,392 568 223 954	1 2 1 4 2 2	2,151 12,064 7,000 21,148 12,065
Total		440,612	518,782	12	61,887

[&]quot;"Miscellaneous" includes 2 tugs, 1 of American and 1 of British registry, of 175 and 115 tons, Panama Canal net measurement, respectively, the Storm King and St. Mabyn; also the Uruguayan cruiser, Uruguay, of 410 tons, same measurement.

Tincludes S vessels of 22,554 tons, Panama Canal net measurement, carrying 44,710 tons of nitrate, routed to Cristobal for orders to proceed from there to ultimate destination.

\$\frac{1}{2}\text{Includes the New Zealand}\text{ of the British Navy and the tug Storm King.}

Tables showing the ports from which cargo was shipped and to which it was destined are attached to this report. (See pages 344 to 347 inclusive.)

SERVICES TO CANAL SHIPPING.

Repairs were made on 130 vessels during the month, including both those entering the ports only and those passing through the Canal; 69 at Cristobal and 61 at Balboa.

Thirteen vessels were dry docked, 7 at Cristobal and 6 at Balboa. Coal sales were 48,808 tons to 141 vessels at Cristobal, and 3,949 tons to 24 vessels at Balboa; a total of 52,757 tons to 165 vessels. There were 317 ships supplied with 10,925,727 gallons of water; 191 at Cristobal with 7,922,077 gallons, and 126 at Balboa with 3,003,750 gallons. Sales of commissary supplies to ships other than those of the Panama Railroad Steamship Line, aggregated \$102,556.87, including \$3,338.74 for laundry service at Cristobal. Charges for tug service to vessels using the Canal and the terminal ports amounted to \$32,776.80, of which \$17,871.80 was collected at Balboa and \$14,905 at Cristobal.

STATEMENT OF OPERATIONS.

Details of the business transacted at the Atlantic and Pacific terminals of the Canal are shown in the following tabulations:

Item.	Cristobal.	Balboa.	Total.
Commercial ships making transit of Canal Net tonnage of commercial ships, Panama Canal measurement. United States equivalent net tonnage of commercial ships. Registered gross tonnage of commercial ships. Registered net tonnage of commercial ships. Cargo through the Canal in commercial ships, tons of 2,240 pounds. Deck load cargo, included in above. Nationality of commercial ships through Canal:	140 487,114 402,873 632,917 397,904 405,697 856	120 440,612 379,321 570,399 361,795 518,782 3,273	260 927,726 782,194 1,203,316 759,699 924,479 4,129
British	33	32	65 1
Chilean Chinese	4	7	11 1
Danish. Dutch. French. Italian.	1	1 2 8 1	1 3 8 4
Japanese Norwegian	21	2 8	23 12
Peruyian Russian	3	3	6
Spanish Swedish	7	5	12
United States. Uruguayan	59 1	50	109
Total	140	120	260
British. Brazilian	110,299 6,294	143,057	253,356 6,294
Chilean Chinese	9,529	18,845	28,374 3,998
Danish Dutch	6,653	5,303 9,465	5,303 16,118
French Italian	11,285	10,425 3,593	10,425 14,878
Japanese Norwegian	19.540	9,824 31,012	93,432 50,552
Peruvian Russian	7,845 949	8,454	16,299 949
Spanish Swedish	19,154 4,001	12,778 4,013	31,932 8,014
United States. Uruguayan.	203,549 410	183,843	387,392 410
Total	487,114	440,612	927,726
Canal: British	92,023	111,942	203,965
Brazilian Chilean	5,436 6,389	14,625	5,436 21,014
Chinese. Danish	3,741	4.228	3,741 4,228
Dutch. French	4,262	8,185 9,719	12,447 9,719
Italian Japanese	9,686 73,179	2,648 7,900	12,334 81,079
Norwegian Peruvian	14,947 4,655	27,057 5,814	42,004 10,469
Russian. Spanish.	919 17,207	10,784	919 27,991
Swedish. United States.	2,322 166,936	3,556 152,075	5,878 319,011
Uruguayan	1,172		1,172
Total	402,874	358,533	761,407
British Brazilian	145,399 6,692	183,397	328.796 6,692
Chilean Chinese	11,035 6,026	21,237	32,272 6,028

Registered net tounage of commercial ships, through the Canal: 90,480	6,636 19,654 16,367 20,264 123,446 63,657 26,251 1,265 41,805 41,805 41,805 41,805 41,805 41,805 41,805 41,805
Danish 6,636 Dutch 6,599 12,755 French 16,367 16,367 Italian 15,584 4,680 Japanese 110,968 12,478 Norwegian 23,603 40,054 Peruvian 12,468 13,783 Russian 1,265 3,783 Spanish 24,070 17,138 Swedish 3,769 4,952 United States 263,992 236,992 Uruguayan 547 Total 632,917 570,399 1 Registered net tonnage of commercial ships, through the Canal: 90,480 114,712 Brazilian 4,126 1 Chinese 3,871 3,871	19,654 16,367 20,264 123,446 63,657 26,251 1,265 41,808 8,721 500,914
French	16,367 20,264 123,446 63,657 26,251 1,265 41,808 8,721 500,914
Italian	20,264 123,446 63,657 26,251 1,265 41,808 8,721 500,914
110,968 12,478	63,657 26,251 1,265 41,808 8,721 500,914
Registered net tonnage of commercial ships, through the Canal: Brazilian 12,468 13,783 Spanish 24,670 17,138 Swedish 3,769 4,952 United States 263,992 236,992 Uruguayan 547 Total 632,917 570,399 1 Registered net tonnage of commercial ships, through the Canal: Brazilian 90,480 114,712 Brazilian 4,126 Chilean 6,729 13,832 Chinese 3,871	1,268 41,808 8,723 500,91
Aussian 1,265 17,138 1,265 17,138 17	1,268 41,808 8,722 500,914
Swedish 3,769 4,952 United States 263,992 236,922 236,922 Uruguayan 547	500,91
United States. 263,992 236,922 Uruguayan. 547	500,91
Total	54
British 90,480 114,712 Brazilian 4,126 Chilean 6,729 13,832 Chinese 3,871	
British 90,480 114,712 Brazilian 4,126 Chilean 6,729 13,832 Chinese 3,871	,203,31
Brazilian 4,126 Chilean 6,729 13,832 Chinese 3,871	
Chilean	205,192 4,120
Chinese	20,56
	3,87
	4,22 12,60
French	101 24
Italian 9,557 2,850 Japanese 70,662 7,761 Norwegian 14,839 25,379	12,50 78,42 40,20 14,26
Norwegian	40.20
7,590 7,590 7,590 7,590 7,590 7,590 7,590 7,590 7,590 7,590	14,26
Russian. 822 Spanish. 16,204 10,815	27,01
Swedish. 2,853 3,973	6,82
United States	318,44
Uruguayan	350
Total	759,699
British	947 049
Chilean	247,042 24,228 7,400 7,582 16,758
7,400	7,400
Danish 7,582 Dutch 539 16,216	16 75!
French	
Italian 1,190 2,312 Japanese 99,805 16,896 Norwegian 18,500 26,066	3,502
Japanese. 99,805 16,896 Norwegian. 18,500 26,066	3,502 116,701 44,566
	10.696
Russian. 720	720
	24,552 19,037
Swedish 4,200 5,837 United States 171,042 224,191	19,037 595,233
Total	924,479
Vessels passing through the Canal free of tolls:	
U. S. Navy destroyers. 5 U. S. Navy fuel ship. 1	, {
I S Novy tug	i
U. S. Navy tender. 1 U. S. Navy mine sweeper. 1	
U. S. Navy colhers	
U. S. Army transport	-
U. S. Army dredge I Merchant ships with coal and supplies for the Army and Navy and	1
The Panama Canal	2
Total	21
Launches 3	3
Net tonnage of launches, Panama Canal measurement	16
Total ocean-going ships transiting Canal	281 284
Jargo on which no tells were charged tons 29, 241 736	29,977
Commercial ships through Canal in ballast 51 11 Net tonnage of above, Panama Canal measurement 163,565 54,611	62
Net tonnage of above, Panama Canal measurement. 163,565 54,611 Total commercial ships without cargo, transiting Canal 51 11	218,176
Net tonnage of above, Panama Canal measurement	218,176
Motor ships through the Canal. 2 6 Net tonnage of above, Panama Canal measurement 491 16,400	16,891
Sailing ships through the Canal	a
Net tonnage of above. Panama Canal measurement. 1.947 7.834	9,781
Folls levied on laden ships through the Canal \$324,236.03 \$393,081.20 \$71 Folls levied on ships in ballast \$124,288.19 \$49,752.92 \$17	7,317.23 $1,041.11$
Folls on launches \$15.36	\$15.36
` <u> </u>	,373.70
Total tolls larged	605
Total tolls levied	
Fotal ships entering port, including Canal transit	607
Total ships entering port, including Canal transit. 323 282 Cotal ships clearing port, including Canal transit. 322 285	607
Total ships entering port, including Canal transit. 323 282 Fotal ships clearing port, including Canal transit. 322 285 Total ships learning port, including Canal transit. 645 567 Total ships handled. 971,127 833,657 1, Vet registered tonnage of vessels entering port. 971,127 833,657 1,	1,212 804,784
Total ships entering port, including Canal transit. 323 282 Fotal ships clearing port, including Canal transit. 322 285 Total ships learning port, including Canal transit. 645 567 Total ships handled. 971,127 833,657 1, Vet registered tonnage of vessels entering port. 971,127 833,657 1,	1,212

	l Cristobal.	ı Balboa.	I Total.
Item.	1,501,083	1,294,952	2,796,035
Registered gross tonnage of vessels entering	1,493.157	1,309,348	2,802,505
Total registered gross tonnage of vessels entering and clearing	2,994,240	2,604,300	5,598,540
Vessels entering port, but not passing through the Canal. Net tonnage of above. Gross tonnage of above.	169,924 272,555 57	17,057 25,852	186,981 298,407
Gross tonnage of above. Vessels clearing port, but not passing through the Canal. Net tonnage of above. Gross tonnage of above. Vessels passing through Canal, and handling passengers or cargo at port	159,767 255,918	11,591 17,003	171,358 272,921
Vessels passing through Canal, and handing passengers of cargo at portentered. Net tonnage of above. Gross tonnage of above. Vessels passing through Canal, and handling passengers or cargo at port	74,811 131,911	56 111,551 187,470	88 186,362 319,381
cleared Net tonnage of above Cross tonnage of above Transit cargo arriving tons Transit cargo cleared tons Local cargo arriving tons Local cargo shipped tons	31 71,582 128,354 993,566 992,870 99,477 4,371	56 114,425 192,895 951,925 951,287 21,174 3,988	183,007 321,249 1,945,491 1,944,157 120,651 8,359
Total local cargo handledtons	103,848	25,162	129,010
Total local and transit cargo arrivingtons Total local and transit cargo clearedtons Cargo received by Receiving and Forwarding Agency of P. R. Rtons Cargo dispatched by Receiving and Forwarding Agency of P. R. Rtons Cargo rehandled by Receiving and Forwarding Agency of P. R. Rtons	1,093,043 997,241 82,135 67,970 8,883	973,099 955,275 7,781 3,506 3,222	2,066,142 1,952,516 89,916 71,476 12,105
Total cargo handled by Receiving and Forwarding Agency of P. R. R	158,988 94,039 133 48,391 5	14,509 6,636 21 3,842	173,497 100,675 154 52,233 5
Coal supplied Panama Railroad Steamship Line. tons. U. S. Army vessels supplied with coal. tons. Coal supplied to U. S. Army vessels. tons. Total vessels supplied with coal. tons. Total coal furnished to vessels. tons. Coal supplied Panama Railroad departments. tons. Coal supplied Army, excepting vessels. tons. Coal supplied The Panama Canal. tons. Coal supplied individuals and companies tons.	352 85 141 48,808 1,115 178 2,490 394	3 107 24 3,949 60	192 165 52,757 1,175 178 3,145 394
Total coal furnished	52,985 29,428 22,762 191 7,922,077 7 187 10 20	25,875 126 3,003,750 6 109 1	57,649 29,428 48,637 317 10,925,827 13 296 11 35
Total vessels furnished commissary supplies	217	125	342
Commissary sales to commercial vessels: Ice. Wholesale groceries. Wholesale cold storage. Laundry. Miscellaneous.	\$1,836.18 14,416.68 44,384.46 3,338.74 3,964.18	\$963.25 6,139.59 25,753.49	\$2,799.43 20,556.27 70,137.95 3,338.74 5,724.48
Total	\$67,940.24	\$34,616.63	\$102,556.87
Commissary sales to ranama Railroad Vessels. Toe. Wholesale groceries. Wholesale cold storage. Laundry. Miscellaneous.	\$146,10 2,589.10 7,214.01 1,188.87 630.45	\$80.92 292.40	\$146.10 2,661.02 7,506.41 1,188.87 630.45
TotalCommissary sales to other Government vessels:	\$11,759.53	\$373.32	\$12,132.85
Commissary sales to other Government vessels: Iee. Wholesale groceries. Wholesale cold storage. Laundry. Miscellaneous.	\$163.71 2,804.51 10,315.20 325.51 684.05	\$203.55 9,267.84 11,899.35 90.18 1,028,47	\$367.26 12,072.35 22,214.55 415.69 1,712.52
Total	\$14,292.98	\$22,489.39	\$36,782.37
Total commissary sales to all vessels. Fuel oil sold to commercial vessels. Fuel oil sold to P. R. R. vessels. barrels.	\$93,992.75 39 13,281	\$57,479.31 4,874 3,865	\$151,472.0 9 4,913 17,146

Item.	Cristobal.	Balboa.	Total.
Fuel oil issued to U. S. Navy. barrels. Fuel oil issued to U. S. Army barrels. Fuel oil issued to Canal departments. barrels.	308 156 5,589	1,187 1,129 19,580	1,495 1,285 25,169
Total fuel oil furnished. barrels. Fuel oil received during month. barrels. Balance on hand, January 1, 1920. barrels. Other oil numped. barrels. Diesel oil issued during month barrels.	19,373 52,591 87,013 386,232	30,635 1,281 59,306 19,333 66	50,008 53,872 146,319 405,565 66
Diesel oil on hand, January 1, 1920. barrels. Passengers arriving, including transit passengers: First cabin.		1,433	1,433
Other than first cabin	1,230	694	1,924
Total		2,105	6,351
First cabin Other than first cabin	2,518 1,139	1,308	3,826 1,888
Total. Total movement of passengers. Passengers disembarking:	3,657 7,903	2,057 4,162	5,714 12,065
First cabin. Other than first cabin.	1,749 895	244 49	1,993 944
Total	2,644	293	2,937
First cabin Other than first cabin	1.330	141 104	1,471 970
Total Services to American seamen:		245	2,441
Seamen shipped. Seamen paid off. Seamen deserted	230	152 132 3	405 362 11
Seamen deserted. Seamen lodged, subsisted, and repatriated	16	14	30
Total seamen bandled		301	808
Total amount earned. Deductions approved by Deputy Shipping Commissioners	\$44,479.25 \$12,848.63	\$15,054.29 \$5,552.45	\$59,533.54 \$18,401.08
Balance due seamen. Paid to seamen. Received ou deposit for seamen. Services to American vessels:	\$15,943.17	\$9,501.84 \$3,738.68 *\$6,498.16	\$41,132.46 \$19,426.13 \$22,441.33
Crews shipped. Crews paid off. Shipping articles written Marine notes of protest noted.	3 3 20	2 9	3 3 5 29
Bills of health issued	167	158 146	325 293

^{*} Includes \$735 immigration deposit.

LOCK OPERATION.

Lockages of commercial vessels during the month were as follows:

	Number of lockages.			Num	Number of vessels.		
	North.	Soutb.	Total.	North.	South.	Total	
GatunPedro Miguel	115	138 144 124	252 259 232	121 120 120	148 146 146	269 266 266	

Army and Navy vessels, those of the Panama Railroad and Panama Canal, and commercial vessels, are included in the following summary of all lockages during the month:

Lockages.	Gatun.	Pedro Miguel.	Miraflores.
Gommercial lockages. Noncommercial, United States Army and Navy Canal equipment.	252 10 6	259 11 21	232 11 14
TotalVessels:	268	291	257
Commercial vessels Noncommercial, United States Army and Navy	269 21 22	266 18 57	266 18 69
Total	312	341	344

The total consumption of water for all lockages was 2,146,890,000 cubic feet. The consumption by locks was as follows:

	Gatun.	Pedro Miguel.	Miraflores.
LockageLeakage.			Cubic feet. 769,740,000 15,000,000
Total	1,135,900,000	1.078,990,000	784,740,000

METEOROLOGY.

The December rainfall was below normal everywhere except at Rio Grande and Chillibrillo, the totals ranging from 1.10 inches at Taboga to 7.73 inches at Monte Lirio. The greatest daily precipitation was 3.62 inches at Colon on the 3d. The estimated rainfall over Gatun Lake watershed was 5.07 inches, compared with a 9-year mean of 4.96 inches; and over the Chagres River basin above Alhajuela it was 3,96 inches, compared with an 18-year mean of 9.25 inches. The elevation of Gatun Lake was 86.88 on the 31st. There was a decrease in storage of 900,000,000 cubic feet for the month.

One seismic disturbance of light intensity was recorded at Balboa Heights on December 3. Its recorded amplitude was 7 millimeters; the probable direction

northwest.

ELECTRICAL DIVISION.

Gatun hydroelectric station-The gross output of the hydroelectric station for the month was 5,667,700 K. W. H. on a computed water consumption of 3,987,600,000 cubic feet. No service interruptions occurred; and on but one occasion, on the 29th, this station carried the entire load of the power system. On this date a load of 14,000 KW necessitated the Miraflores steam plant carrying 300 KW.

Miraflores steam plant—This plant consumed 149,160 K.W.H. in excess of its output,

with generators floating on line service for standby purposes. The oil consumption

was 2,402 barrels.

Total power output—The total gross output was 5,667,700 K. W. II.; the total power distributed to consumers, 4,829,153 K. W. H.; the total loss in power plant auxiliaries, transmission, transformation, and operation of steam plant generators, 838,547 K. W. H., or 17.36 per cent of the gross output.

Substations—All substation service was without other than minor interruptions. The installation of the 60,000 KV testing transformer at the Gatun Substation was

completed and preliminary test made.

Marine work—This division, in addition to its usual maintenance and repair work of Panama Canal plant and equipment, installed and repaired the various items of electrical equipment on 75 vessels during the month, 32 at Cristobal and 43 at Balboa.

SHOP, FOUNDRY, AND DRY DOCK WORK.

Installations in the machinery and boiler room spaces of the steamship Cristobal were brought to within about 6 per cent of total completion. The installation of auxiliary machinery and connections outside of these spaces and refrigerating equipment was begun. The fuel oil compartments have been completed with the exception of the heating grids to be installed, and all steel work erected except that for the smoking room and small pieces of a minor nature. Decking of the boat deck has been completed and the staterooms on the lower deck are being built.

The value of the native wood industry was again demonstrated in the repairs made to the wooden steamship Canada belonging to the French Government. This vessel arrived with a broken rudder stock. A native timber of suitable size and character was readily obtained and the rudder stock quickly replaced, thereby saving a long

delay had it been necessary to obtain the timber from the United States.

The Balboa shops completed a new furnace for the steamship Kentuckian, undergoing repairs at the Cristobal shops. This replaced a furnace which had collapsed and disabled the vessel. The furnace was constructed in three pieces; the longitudinal seams were electric welded; flanges were turned at the ends of each section, and the section next to the combustion chamber was of a truncated elliptical inclined cone in addition to being flanged at the ends, making an unusually difficult job.

satisfactorily completed and tested to withstand a pressure of 210 pounds.

The steamship Elkwater was dry docked and found to have two blades of her propeller broken off, the stern bush and stern tube lock nut loose, and the stern tube partly revolved and cracked. The stern tube was removed and welded and its fit in the vessel properly made by building up loose parts by electric welding and machining to The spare propeller carried on board was installed in place of the broken one.

The steamship Crisfield arrived at Balboa with her high pressure cylinder cracked. Acting upon instructions from the owners, the engine was temporarily compounded to cut out the high pressure cylinder, and the vessel proceeded to the United States in this condition under her own steam for permanent repairs.

The more important marine repair jobs at the Cristobal shops, in addition to those on the Kentuckian, referred to, were: The completion of the overhauling of the steamship Caribbean; the overhauling of the steamship Culebra, which was continued during the month; and the renewal of the greater portion of the planking, framing, and stern log of the tug, San Juan.

An unusual number of ships were at the Balboa shops during the month for repairs.

An unusual number of ships were at the Balboa shops during the month for repairs. On one day there were 26 ships under repair; this exceeds the highest number at the

plant on any previous occasion.

There were 191 special individual and company job orders issued at Cristobal during the month; two of which were for work on naval vessels, exclusive of submarines; 68 covered repairs to ships making call at Cristobal or in transit of the Canal, not including Panama Railroad vessels. The following vessels were at the Cristobal shops for repairs during the month: U. S. S. Barnes, U. S. S. Pigeon; steamships Virginian, Ucayali, Lake Farrar, Bologna, Balboa, Parnahyba, Point Judith, Achilles, Cauca, Gen. Goethals, National Bridge, Salvador, Middlebury, Guatemala, Manavi, Imley, Santa Leonora, Gen. Gorgas, Ottawa, Culebra, Ulysses, Allianca, Panama, Stuyvesant, Ancon, Crynssen, Trois Rivieres, Masula, Belle Brook, Shenandoah, Kenluckian, Victoria, Saverne, Crown of Galacia, Bonnafon, Lake Wilson, Norman Bridge, Princess Matoika, Montnagny, Chile, Jamaica, Middleburg, Caribbean, C-35, C-42, C-44, C-47, Cuzco, Kuwa, Pisco, Hattchie, Urubamba, Ayaba Maru, Fort Sill, Fassett, Colon, Jupiter, Huallaga, Lake Hurst, Llay Llay, and Frontenac; schooners S. G. Wilder and John M. Wells; tugs Porto Bello, San Juan, and Tavernilla; gunboat Uruguay. Of these vessels the following were dry docked: steamships Kuwa, Mecklenburg, Ottawa, Fassett, and Caribbean; and tugs Porto Bello and San Juan. The Balboa shops had the following vessels for miscellaneous repairs during Decem-

ber: U. S. S. Clevcland, W. M. Graham, Ingraham, Turner, Greene, Richard Delphy, Cyrus W. Field, submarine chaser No. 280, cruiser Lima; steamships Lompoc, Cristobal, Crisfield, Achilles, Bonham, Wisteria, Lake Gitano, Lake Elkwater, Lake Onawa, Lake Fairfax, Lake Fitch, Lake Fibre, Canada, Caddo, La Habra, Georgian Rolph, Sacramento, Cheswald, Balboa, Ardmore, Acajutla, West Cavanel, Huasco, Gen. Goethals, Liberty, Belle Brook, Grayson, Minnesotan, Donostia, Point Bonita, Boxley, Dahlia, Dakotan, Olackson, Holbrook, Los Angeles, Ansaldo III, Egremont, Ansaldo San Giorgio I, Belin Quezada, Suecia, Barnes; motorships Santa Elena, Sierra, Chiriqui, Almirante, and H. K. Hall; collier Vulcan, tug Storm King, dredge Corozal, and launch Grace. Of these the following were in dry dock at Balboa: U. S. S. Ingraham,

subchaser No. 280, Achilles, Ardmore, La Habra, and Lake Elkwater.

The output of the Mechanical Division in patterns made and foundry production

is shown as follows:

	December.		Nover	nber.
Iron. Steel. Brass.	14	Pounds. 129,358 26,114 13,356	Patterns. 58 4 40	Pounds. 98,296 29,691 29,961

The routine repair and inspection work of the Division for December comprised the following items:

8	
Cars repaired	
Locomotives, cranes, and miscellaneous equipment repaired	
Passenger coaches packed, cleaned, oiled, and inspected	
Locomotives hostled	
Cranes hostled	229
Locomotives ridden	58
Locomotives inspected	66
Crews instructed in handling locomotives	
Crews instructed in oil and fuel economy	22

BUILDING CONSTRUCTION.

The Building Division had the following items of construction under way during December, with the progress indicated:

Coconicol, mon suc progress manner.	Per cent completed.
Puerto Obaldia Radio station	
Tuberculosis ward, Corozal Hospital	90
Reconstruction, Royal Mail Pier: SteePwork	90
Wood trusses	
Roof	60
Moving 3 type-18 houses from Las Cascadas to Balboa:	
Moving	
Erection	, 40

Moving 7 type-15 houses and 1 type-7 house from Las Cascadas to Pedro Miguel:	C	omi	cent
All houses moved			
Erection of 3 houses			70
Erection of 5 houses			50
Installation of third unit, Gavilan Island incinerator			(*)
Colon stables:			
Colon stables: Footings for stables			75
Concrete columns			50

(*) Erection started.

Preliminary work in connection with the construction of Colon stables was started during the month. The project will comprise six stables, five wagon sheds, laterine, feed room, quarters, and a shop building. In addition to these items of construction and its work for the Army and Navy, a separate report for which is submitted, the Building Division carried on its ordinary repair and maintenance work of Panama Canal buildings, including painting, installation of plumbing, and the removal and conversion of several other buildings into different types of quarters as required, completed one 10-stall and one 4-stall garages, and began the erection of 2 other 6-stall garages. This division also produced 4,400 feet of sectional cement drain tile at its tile manufacturing plant.

DREDGING DIVISION.

The total excavation by dredges of earth, rock, and gravel during December was 474,400 cubic yards, as shown below:

Classified as-		icd as—	Character	Stations.	E	
Cubic yards.	Earth.	Rock.	of work.	Stations.	Equipment.	
				Cucaracha slide.		
(a) 10,800	9,800	1,000	Maintenance	1809–00 to 1817–00 E	Cascadas.	
(a) 25,900	23,300	2,600	Maintenance	1813-00 to 1820-00 E	Paraiso.	
4-> 7 000	4 200	0.000	36.2-4	West Culebra slide.		
(a) 7,200	4,300	2,900	Maintenance	1783-00 to 1780-50 W	Cascadas.	
(a) 29,000	21,800	7,200	Maintenance.	1742-00 to 1747-00 W	Ратаіво.	
		'	ţ	1778–50 to 1792–50 W	Paraiso.	
(a)100,700	60.400	40.300	Maintenance	1777-00 to 1789-00 E	Paraiso.	
(4)100,100	00,300	40,500	таписпансе	Balboa Inner Harbor.	I draiso.	
(b) 15,900	15,900		Maintenance	Balboa inner harbor	Cascadas.	
(b) 9,400	9,400		Construction	Balboa inner harbor	Cascadas	
(0) ,0,110	,,,,,,,,			Pacific Entrance.	Cuotada	
(c) 85,000	85,000		Maintenance	2141-50 to 2166-00 W	No. 83.	
(c) 15,000	15,000		Maintenance	2197-50 to 2202-50 W	No. 83.	
(c) 90,000	90,000		Maintenance	2189–00 to 2198–75 E	No. 86.	
(c) 75,000	75,000		Maintenance	2167-50 to 2197-50 W	No. 86.	
(c) 5,000	5,000		Construction	2167–50 to 2197–50 W	No. 86.	
(4) 0 000	Gravel.		A	Chagres River gravel bed.		
(d) 2,600	2,600		Aux. constr'n	Chagres River	Marmot.	
(d) 2,900	*2,900	}	Aux. constr'n	Channel to gravel bed	Marmot.	
474,400	420,400	54,000	Total for month			

(a) Gaillard Cut. (b) Balboa inner harbor. (c) Pacific entrance. (d) Gravel beds.

*Two thousand nine hundred cubic yards of mud were excavated in constructing a navigable channel to the sand and gravel beds.

The following disposition was made of the material excavated: All from Gaillard Cut, 173,600 cubic yards, was dumped in Gatun Lake north of Gamboa; 90,000 yards from the Pacific entrance were deposited in the Rio Grande diversion, and 80,000 yards on San Juan dump, 100,000 yards on the flats west of the Canal; all that from Balboa inner harbor, 25,300 yards, was dumped at sea; 2,600 yards of gravel were stored at the gravel pits, and the 2,900 yards of mud excavated were thrown along the channel to the gravel bed.

No unusual slide movements occurred during the month. A small surface movement near the top of Cucaracha slide brought no additional material into the Canal area. The barge repair slide had a surface movement continuous throughout the month, but without disturbing the Canal channel in any way.

The excavation remaining to be done on January 1 was as follows:

Location.	Earth.	Rock.	Total.
Gaillard Cut.	Cu. yds.	Cu. yds. 25,000	Cu. yds. 25.000
Pacific entrance	50,500	86,900	137,400
Total Canal prism. Cristobal coaling station.	1	111,900 2,100	162,400 2,100
Balboa inner harbor	145,000	13,400	158,400
Total, ocean to ocean	195,500	127,400	322,900

MUNICIPAL ENGINEERING DIVISION.

This Division had the following items of construction under way in the Northern District during December, with the progress on January 1 as shown:

Roads, water lines, and sewers, ten 12-family silver quarters, Mount Hope:	comple	
Sewer lines. Roads and sidewalks.		100
Grading, fill, and general municipal work for new silver townsite, Mount Hope:	,	_
Fill and grading		99 80
Streets and roads		8 ,
Sewers, sanitary		90 90
Municipal work, Block 54, Colon:		
Water lines Sanitary sewers.		25 60
Storm sewers		99
Municipal work, Panama Railroad stables, Colon. Municipal work, area between 7th and 9th streets and "G" and "K" streets, Colon		99 2
Concrete roadway to substation, Gatun		50
Construction work in the Southern District progressed as shown below:		
	Per c	
Replacing 4-inch oil line, Balboa.	comple	100
Municipal work for 3 type-18 houses, Balboa		60
Industrial track between buildings 8 and 14, Balboa shops. Municipal work and concrete work for new garages, Ancon and Balboa.		99 100
Sewer, Northern Avenue to heach		75
Municipal work for 8 houses, Pedro Miguel.		75

(*) No work done.

All pumping stations were operated continuously during the month with a total output of 856,009,000 gallons, of which 95,991,000 gallons were furnished to Panama, 49,602,925 gallons to Colon, and 10,925,727 gallons to vessels. A total of 528,564,000 gallons was filtered for domestic purposes.

Storm sewer, Javillo fill.
Sewer and water lines for C. & S. A. Tel. Co., Balboa.....

The Gavilan Island incinerator consumed 2,647 tons of garbage and 21 dead ani-

mals during the month.

WORKING FORCE.

Effective December 24, 1919.

Department or Division.	Gold.	Silver.	Total.
Operation and Maintenance:			
Office	38	5 3	91
Building Division	349	1,843	2,192
Electrical Division	242	333	575
Municipal Engineering Division.	114	1,578	1,692
Lock Operation,	177	660	837
Dredging Division.	149	934	1,083
Mechanical Division.	972	1,904	2.876 541
Marine Division	137 52	404 188	240
Fortifications	92	158	240
Total	2,230	7.897	10.127
supply Department (see Hotel Washington also):	2,200	7,007	10,120
Quartermaster	160	1.903	2.063
Subsistence		373	401
Commissary	235	1.613	1,848
Cattle Industry—Plantations	29	1,375	1,404
m . 1	452	F 004	5,716
Total		5,264	258
Accounting	237	957	1,194
Health Executive		281	817
Pagentine	550	201	
Total	1,020	1.249	2,269
Panama Railroad:	1		
Superintendent.	70	515	585
Transportation.	142	196	338
Receiving and Forwarding Agent.	78	1,878	1,950
Coaling Stations	84	763	847
Total	374	3,352	3,726
Total		97	102
Hotel Washington—Supply Department		- 01	102
Grand total	4.081	17,859	21,940

The total gold force employed on December 24 was 18 more than the 4,063 at work on November 19, and the silver force was 1,039 more than the 16,820 working on that

date. As compared with the gold force for the corresponding month of last year, reported as of December 18, 1918, the present force is an increase of 262 over the 3,819 employed on that date; and the silver force an increase of 200 over the 17,659 of the same date.

Panama Canal and Panama Railroad quarters had the following occupants on

December 31:

Occupants.	Men.	Women.	Children.	Total.
Americans. Europeans. West Indians.	191	2,141 46 1,975	2,537 62 3,735	8,140 299 10,859
Total	8,802	4,162	6,334	19,298

PUBLIC HEALTH.

There were 43 cases of malaria reported among employees during the month, as compared with 23 cases for November. Of the 43 cases this month, 27 were employees of the cattle pastures and plantation camps of the Supply Department. The total number of cases of malaria, including employees and nonemployees, was 95, as compared with 73 for November. One nonresident died from malaria. Eighteen cases of influenza were admitted to hospitals, as compared with 13 cases last month; no deaths resulted in December. There were 12 cases of pneumonia and 3 deaths this month; the November record being 5 cases and 1 death. There were 5 cases of typhoid fever during December, 3 of whom were nonresidents, and 1 death; in November there were 4 cases and no deaths from typhoid. No cases of smallpox were reported this month. One case of leprosy was admitted to the Palo Seco leper asylum.

RECEIPTS AND SALES OF MATERIAL AND SUPPLIES.

Material ordered on United States requisitions was received during the month in the total amount of \$1,144,336.24. Same receipts for November were \$452,243.12. Of the December receipts, \$989,211.32 was chargeable to operation and maintenance; \$132,993.81 to construction and equipment; and \$22,131.11 to miscellaneous departments. Cash sales on the Isthmus from storehouses and obsolete store amounted to \$69,766.28, of which \$59,409.08 was for miscellaneous storehouse stock, \$7,731.06 for fuel oil, \$2,655.72 for scrap, and \$330.42 for obsolete material. There were no

important sales of material in the United States during December.

The total sales of material from storchouses to steamships during the month was \$42,437.91, of which \$35,126.76 was for miscellaneous stock material, and \$7,311.15 for fuel oil. Sales of commissary supplies to all purchasers for the month aggregated \$1,148,513.92, made up as follows: To steamships, other than United States Government vessels and those of the Panama Railroad Steamship Line, \$105,618.76; to The Panama Canal, \$126,486.86; to the United States Government, including sales to the Army and Navy, \$186,270.41; to individuals and companies, principally through charge accounts in the retail commissaries, \$25,190.80; to the Panama Railroad, including its steamships and the Hotel Washington, \$40,512.21; and to individuals purchasing coupons, \$664,434.88.

FINANCIAL RECEIPTS AND EXPENDITURES.

The cash balance in Canal appropriations on December 31, exclusive of Fortifications, was \$14,528,951.48; the balance in Fortifications was \$7,756,247.48. Payments from appropriations by the Disbursing Clerk, Washington, amounted to \$576,803.79, and by the Paymaster on the Isthmus to \$1,501,576.21. Purchases of commissary books from the Panama Railroad Company amounted to \$344,063.91.

Collections of tolls on the Isthmus amounted to \$891,375.70. Deposits of \$223,350 were made with the Assistant Treasurer of the United States to be applied on payment of tolls and other charges against vessels using the Canal. The total Panama Canal collections on the Isthmus were \$2,273,230.10, and collections by the Disbursing Clerk, Washington, \$95,879.50. Receipts from Canal Zone and miscellaneous funds were \$211,141.47; disbursements from the same source were \$36,467.08. December payrolls on the Isthmus aggregated \$1,248,505.17, 'as compared with November payrolls of \$1,155,800.72, an increase of \$92,704.45.

Respectfully,

CHESTER HARDING,

Governor.

Distribution Among Ports of Cargo Passing Through the Canal from Pacific to Atlantic, December, 1919.

Leith, Scotland.				3,163		3,163
Ipswich, Great Britain				4,240	6,210	10,450
Halifax, Nova Scotia.					7,403	7,403
Cibraltar, Spain.		8,800				8,800
Genoa, Italy.					2,312	2,312
Falmouth, England.			10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -			1,154
Dunkirk, France.	8,200	6,329				14,529
Cristobal, Canal Zone.	4,422 2,226 8,081	1,713	1,000	268	3,531 5,906 3,500 8,161	70,213
Copenhagen, Denmark.				7,582		7,582
Char'es'on, S. C.		8,710			16,203	24,913
Bilbao, Spain.			4,100			4,100
Bergen, Netherlands.				9,000		9,000
Baltimore,				2,800	7,022	9.822
Antwerp, Belgium.		6,200	8,500	4		18,700
Alicante, Spain.		2,716				2,716
Aarhus, Denmark.			6,661			6,661
From—	Alberuia, British Columbia Antofagasta, Chile Artas, Peru Brisbane, Australia Buenaventra, Colombia Callao, Peru Calda Buena, Chile, Calda Buena, Chile, Calda Colosa, Chile	Champerico, Gratemala. Coronel, Olile. Corral, Chile. Corral, Chile. Corral, Experimental Columbia. Grasyaquil. Eucador. Grayaquil. Hawaii.	Caronic Salvador La Union Salvador La Union Salvador Lyttleton, New Zealand Manta, Eouador Melliounea, Chile Melloucue, Attertala Nanosone, British (Columbia Oamaru, New Zealand Portland, Oreg.	Punta Arenas, Argentine Salaverry, Peru San Diege, Cal. San Francisco, Cal. Seartle, Wash.	Sydney, Australia. Takonia, Wash. Taltaluano, Chile. Taltal, Chile. Tocopilia, Chile. Valpazaso, Chile. Valpazaso, Chile. Walpazaso, Chile. Wellinciven, British Columbia.	Total

Distribution Among Ports of Cargo Passing Through the Canal from Pacific to Atlantic, December, 1919-Continued

.latoT	26,653	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2,71:	5,33,3	5,91	7,392	9,396	1,000	33,835	2,205	16,081	6,400	3,113	27,554	11,940	36,111	3,500	22,658 21,634	510 709
W. Hartlepoo England,														1,803					600
Valencia, Spain.																	6,450		4 6
United Kingdom.											1,799								100
Stockholm, Sweden,														5,837					1001
San Juan, Porto Rico	5,336				: :														300
Rotterdam, Holland.			7.650									: :				: :			
Qucenstown, Ireland.	2,653				5,917	00000				2,205			779					11,912	
Philadelphia, Pa.	8,651				: :									11,000					
Norfolk, Va.																		2,822	900
Nipe, Cuba.					::									1,841					
New York,		8,201				7,392	9,396	4,310			13,128		3,113	13,364 15,488	8,000	3,851		5,976	000
Йеw Orleans La.			2,712																
Neuvitas, Cubs.														1,821		: :			
hfobile, Ala.						::		*				::							
Liverpool, England.				5,330								6,400			7,940	28,729		6,900	
London, England.									000		4,800			6,407				20	
From—	Albernia, British Columbia. Antofagasta, Chile. Arica, Peru.	Brisbane, Australia. Buenaventura, Colombia.	Calato, retu Caleta Buena, Chile Caleta Colosa, Chile	Champerico, Guatemala Coronel, Chile	Corral, Chile. Frazers Mills, British Columbia	Guayaquu, hedadof. Honolulu, Hawaii.	Adulque, Carre.	La Union, carvered Months Fensedor	Mejillones, Chile	Nanoose, British Columbia.	Oamaru, New Zealand. Portland Oreg.	Fort Tire, Australia. Punta Arelias, Argentine.	Salaverry, Peru San Diego, Cal	San Francisco, Cal Seattle, Wash	Singapore, China. Sydney, Australia.	Tacoma, Wash Talcahuano, Chile	Tattal, Chile. Toconilla. Chile	Valparaiso, Chile Vanciouver, British Columbia Vanciouver, British Columbia	

Distribution Among Ports of Cargo Passing Through the Canal from Atlantic to Pacific, December, 1919.

Los Angeles.		: : :	4,000						4.000	F 9 000
Kobe,					4,991			6,561	11.552	1000
.nagal		6,517			6,778				13.295	
Iquique, Chile.						9.500			9.500	-
Honolulu, JiswaH					7,200	8,000		9,855	75.829	
Hongkong, China.					5,400				5.400	-
Guayaquil, Ecuador.		2,117			3,147				5.264	_
Dunedin, New Zealand.	4,000		5						3 4,000	
Coronel, Chile,	64	100	2,992	: :			: :		0 3,056	_
Chile.				: :	<u> </u>				0 110	
Champerico, Guatemala.	0	5 1,020		: :	:::				1,020	
Callao, Peru.		2,615			6,008				13,362	
Caldero, Chile.	4,273			:::	3 083				7,356	
Buenaventura Colombia.		1,472							1,472	
Antofagasta, Chile.	1,07			<u></u>					1,073	_
Auckland, New Zealand,				7,000	7,500				14,500	
Adelaide, Australia.				5,000			: :		5,000	_
From—	Amsterdam, Holland Baltimore, Md Belfast, Ireland Christiania. Norway	Cristobal, Canal Zone. Galveston, Tex. Genoa, Italy.	Liverpool, Bogland London, England	Manuerect, England	New Orleans, La New York, N. Y Norfolk, O. Y	Port Arthur, Tex. Puerfo Lobos, Mexico	Fort Jabot, Wales Sabine, Tex.	Davannan, tra. Tampico, Mexico Tuxpan, Mexico	Total	

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Distribution Among Ports of Cargo Passing Through

lstoT	8, 631 16, 825 16, 825 11, 190 19, 825 11, 190 19, 779 19, 779 19, 779 135 135 135 135 135 135 135 135 135 135	405,697
Yokohama, Japan.		8,800
Wellington, New Zealand.		8,210
West Coast.	64	2,135
Valpataiso,	4,117 7,124 1,190 3,240 2,700 2,700	17,719
Tumaco, Colombia.	29	544
Townsville, silstralia.	9 : : : : : : : : : : : : : : : : : : :	6,400
Tocopilla, Chile,		000'6
itiedsT		259
Tacoma, Wash.	8	18,976
Seattle, Wash.	8,092	9,042
San Pedro, Cal.	(co : : : : : : : : : : : : : : : : : :	3,400
San Francisco Cal.	2,975 20,148 64,325 6,957	114,051
Pisagua, Chile.	8,000 7,135	15,135 114,
Mollendo, Peru.	10	5,137
Melbourne, Australia.		5,900
Lyttleton, NewZealand.		5,200
- From—	Amsterdam, Holland Battimore, Md. Battimore, Md. Battimore, Md. Battimore, Md. Christiania. Noway Chiokla, Canal Zone Chiokla, Canal Zone a Haly. Galveston, Tax. Genca, Haly. Manchester, England Manchester, England Manchester, England Montrell, Canada New Orleans, La New York, N. Y. Nortolk, W. Y. Perto Lobox, Mexico Port Arthur, Tax. Both Arthur, Tax. Sabine, Tex. Sabine, Tex. Sabine, Rex. Sabine, Rex. Sabine, Rex. Tampico, Mexico	Total

MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight, January 24, 1920.

	Canal	Net	11,721 1,728 2,933 2,933 2,933 2,081 1,525		3,250 2,628 5,026 1,999 3,608
	PanamaCana Tonnage	Gross	2, 803 2, 756 3,		4,876 7,150 7,150 5,550
	Tone		33,000 4,909 9,000 9,000 1,000		7,049 4,700 8,426 1,950 7,245
	Cargo		Cement and coke Sugar General Crude oil Constant General General General Coal Coal Control General Countrol Control Co		Nitrate. Nitrate. Lumber. Nitrate.
	For		Iquique Callao Callao Vancouver Buenaventura. Tocopilla. San Francisco. Tiquique San Diego. San Diego. Buenaventura. Iquique San Diego. Buenaventura. Iquique San Diego. Buenaventura. Toliquique San Salavery. Mejillones Galao Antofagasta. Salavery Mejillones Chile Chile Chile Guayaquil	Savannah Boston Senizaire Antilles, Cuba.	
	11 12 13 13 13 13 13 13 13 13 13 13 13 13 13		Pensacola. Norfolk. Norfolk. Norfolk. Tampia. Tampia. Cristobal. Tampa. Cristobal. New York Cristobal. Jacksouville. Guartanamo. Gristobal. Norfolk. Guartanamo. Cristobal. Norfolk. Guartanamo. Cristobal. Norfolk. Guartanamo. Cristobal. Norfolk. Guartanamo. Cristobal. Newport News Kingapio. Newport News Cristobal. New York. Tampico. Portland. Tampico. Portland. Cristobal. Cristobal. New York. Cardiff. Cardiff. Cardiff. Liverpool.	Iquique Taltal Mejillones Seattle Iquique	
	Salt	draft	201155 20	πo.	28.0 24.0 17.6 24.2
PACIFIC	Boom	7	######################################	ATLAN	50.0 46.2 53.2 53.3
TIC TO	Toward Popular	#10 Supplies	2251.0 2251.0 840.0	FIC TO	369.0 324.0 407.7 289.0 380.0
NTTAN		3		-PACI	
THROUGH THE CANAL—ATLANTIC TO PACIFIC.	Line		United States Shipping Board. United States Shipping Board. Bendix J. Grefstad. Society Gen. der Y. Maritime. Pacific Metals Corporation. Mitani & Co. United States Stell Products. South American June. W. R. Grace & Co. United States Shipping Board. United States Nary. United States Nary. United States Nary. United States Shipping Board. Pervise Stean Nary gration Co. United States Shipping Board. Pervise States Nary. United States Shipping Board. Pervise States Nary. United States Shipping Board. Pervise States Shipping Board. Pervise States Shipping Board. United States Shipping Board. United States Shipping Board. Taisho Kaiun Kaisha. Standard Old Co. Penfile States Shipping Board. Taisho Kaiun Kaisha. Standard Old Co. Penfile States Shipping Board. Taisho Kaiun Kaisha. Standard Old Co. Penfile States Shipping Board. Taisho Kaiun Kaisha. Standard Old Co. Penfile States Shipping Board. Taisho Kaiun Kaisha. Standard Old Co. Penfile States Shipping Board. Taisho Kaiun Kaisha. Standard Old Co. Penfile States Shipping Board. Standard Old Co. Penfile States Shipping Board. Standard Old Co. Penfile States Shipping Board.	THROUGH THE CANAL—PACIFIC TO ATLANTIC.	Coastwise Transportation Co United States Shipping Board American-Hawaiian Line United States Shipping Board Mitsui Bussan Kaisha
		Nationality	American. Norvegian. British. Norvegian. British. Japaneee British. American. British. American. British. American. British. American. British.		American American American American American
	Cleared for sea	TuoH	116.00 118.325 118.325 12.30 12.30 12.30 13.30 1		6.15 6.57 10.14 11.25 7.07
	1	Day	818888888888888888888888888888888888888		10001
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Raranga. Lake Licoco. Chile. Sacramento	Giorgo 1 (d).  Giorgo 1 (d).  C-48.  C-48.  C-48.  Coolcha (d).  Lake Fibre.  Balboa.  Nishamaha.  Lake Fairfax.  Lake Fairfax.  Jadden.  Gorgona (c).  Mystic.	Virginian. Volga

(c) Tug. (d) Motor schooner (e) November 12, 1919. (f) For orders. (g) Pig iron 70, lumber 700. (h) 1,435,1154. (i) 1,413,689 B. F.

PORT OF CRISTOBAL.

*DEPARTURES.	Line. For.	United States Shipping Board Norfolk.  J. Christensen San Juan. Leyland Line. Panama Railroad Steamship Line. New York. United Fruit Co. New York and Júngston. United Fruit Co. New Ordens, wayports.
	Vessels.	Fassett. Nephune (j) August. Asian. Cen. G. W. Goetbals. Pastores Bellota. Tivives. Tivives. Carrago.
	Date.	Jan. 18. Jan. 19. Jan. 20. Jan. 20. Jan. 21. Jan. 21. Jan. 21. Jan. 22. Jan. 22.
	From.	High seas. New Orleans. New York and wayports. New York and wayports. New York and Kingston. Bluefields. Colon. New Orleans.
*ARRIVALS,	Line. From.	High seas.   High seas.   United Fruit Co
*ARRIVALS,		ry.  Steamship Line.  nt.  pping Board.  on  ny

(f) Collier. (k) Schooner.

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending January 24, 1920.

		1		Carg	;o—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Name of vessel.  Lanra C. Hall. Lake Frenchton. Huasco. Manavi. Lake Gebhart Asian. Jamaica. Chantier Urubamba General Goethals. Chile. Cartago. General Ernst. Turrialba Imperial. Balboa. Tivives.	Line or charterer.  Pacific Metals Corporation. United States Shipping Board Chilean Steamship Line Pacific Steam Navigation Co. United States Shipping Board Leyland Line. Pacific Steam Navigation Co. United States Shipping Board Peruvian Steamship Line Panama Railroad Steamship Line. Pacific Steam Navigation Co. United Fruit Co. Panama Railroad Steamship Line. United Fruit Co. Chilean Line Colombian Maritime Co. United Fruit Co.	January 18  January 19. January 20. January 21. January 21. January 21. January 21.	January 18 January 18 January 19 January 19 January 20 January 20 January 20 January 21 January 21 January 21 January 22	2,660  1,964½ 968 16 1,285 1,435 687	Tons. 27 (\$) 640 681 (\$) 993 722 (\$) 800 4,161 615 42 3,868 2,56
Colon	Panama Railroad Steamship Line. San Blas Trade Corporation. United States Government. Panama Railroad Steamship Line. Pacific Steam Navigation Co Harrison Line.	January 23 January 23 January 24	January 22. January 23. January 23: January 24.	(†) 609 12,701½ 100 745	3,444 20 44

^{*} Transport.

‡ No cargo laded.

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending January 24, 1920.

	•			Car	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded
Diablo. Jamaica. Chile. Balboa	Pacific Metals Corporation  Pacific Steam Navigation Co. Pacific Steam Navigation Co. Colombia Maritime Co. Losa Maritime Co. Losa Maritime Co.	January 19 January 20 January 19 January 20		1,268	Tons. 2
City of Para	Pacific Mail Steamship Co United States Shipping Board	January 23		267	

### February Weather Probabilities.

The following weather conditions may be expected to prevail at the Canal entrances during the month of February, 1920. Predictions are based on the weather records at Colon and Balboa Heights for the past 12 and 14 years, respectively.

Winds-Fresh northerly dry season winds will prevail throughout the month. The average hourly velocity on the Atlantic Coast will be about 16 miles, north and northeast winds prevailing. The maximum velocity is not likely to exceed 35 miles an hour, although a maximum velocity of 39 miles an hour was recorded during the 'Norther" of February, 1915.

North and northwest winds will prevail on the Pacific Coast and over the interior, with an average velocity of 10 or 12 miles per hour. The maximum velocity is not

likely to exceed 32 miles per hour.

Rain—Dry season weather may be expected to prevail in February, but occasional light showers may be expected. The average February rainfall at the Pacific entrance is 0.80 inch, and the average on the Atlantic side is 1.65 inches.

Fogs—No fogs are likely to occur during the month at either Canal entrance, but occasional night and early morning fogs may be expected over the interior. The average number of nights in February with fogs over the Gaillard Cut section of the Canal has been 5. Practically all of these are light, and clear away before 8.30 a. m.

Temperature—Air temperatures should average about 80° F. on both coasts. The temperature at the Pacific entrance is not likely to exceed 94° F. or to fall below

65° F., while at the Atlantic entrance the maximum temperatures should not be above 90° F., nor the minimum below 70° F. The average daily range in temperatures is about 18° F. on the Pacific Coast and but 7° F. on the Atlantic side.

[†] No cargo discharged.

Barometric pressure—The sea-level atmospheric pressure averages slightly higher in the dry season. The average pressure should be about 29.90 inches in February. The maximum for the month is not likely to exceed 30.05 inches, nor the minimum to be lower than 29.70 inches.

Relative humidity—The relative humidity of the atmosphere is lower in the dry season. The humidity should average 80 per cent or under on both coasts, but the daily range will be greater on the Pacific side where the nighttime humidity is higher

and the daytime humidity much lower than on the Atlantic Coast.

Storms—No severe general storms are likely to occur at either Canal entrance during the month, unless the Isthmus should be visited by storms of the "Norther" type, which occasionally reach as far south as Colon at this season of the year.

No local thunderstorms are likely to occur and generally fair weather may be expected at both Canal entrances. Smooth to moderate seas may be expected at the Pacific entrance.

Tides-Tidal fluctuations on the Atlantic side are too small to affect navigation.

P	Panama (Balboa) tide predictions for the month are given below:																
Da	y of-	Time a					y of-	Time	and He	eight o	f High	Da	Day of- Time and He. h. of Hig				High
W.	Mo.	an	d Low	Wate	r.	W.	Mo.	a:	nd Low	Wate	r.	W.	Nio.	a	nd Low	Water	
S	í	0:23 13.8	6:49 1.6	1:04 13.4	7:20 2.1	W	11	2:39 1.9	8:41 12.7	2:53	8:59 13.0	S	21		11:03 -0.3		11:23
M	2	1:28 14.3	7:56 0.8	2:08	8:25 1.3	Γh	12	3:30 2.7		3:43 3.5	9:49 12.1	s	22	5:27 14.7	11:39 -0.5		11:59 -0.4
Tu	3	2:29 14.9	8:54 -0.1	3:05 15.0	9:23 0.4	F	13		10:28 11.1		10:51 11.6	М	23	6:07 14.8	12:17 -0.4	15.8	
W	4	3:26 15.5			10:12 -0.4	S	14		11:39 10.9	5:43 4.4		Tu	24	0:40 -0.3	6:48 14.7	12:	7 -0 t 15 .4
Th	5	4:16 15.8			10:59	s	15	0:01 11.4		12:47 11.1	6:49 4.3	W	25	1:25 0.1	7:31 14.4	1:44	7:52 15.a
F	6	5:08 16.0			11:41 -0.5	М	16	1:04 11.7	7:28 3.2	1:42	7:51 3.7	Th	26	2:16 0.6	8:18 13.8	2:38	8:42 14.3
S	7	5:55 15.8				Γu	17	1:57 12.2	8:21 2.5	2:29 12.5	8:43 2.9	F	27	3:12 1.2	9:14 13.2	3:38	9:43 13.8
S	8				7:02 15.6	W	18	2:43 12.8	9:08 1.7	3:11 13.2	9:27	S	28	4:15 1.6	10:23 12.7	4:45	10:56 13.1
M	9	1:07 0.2	7:20 14.7	1:22	7:41 14.8	Th	19	3:24 13.4	$9:49 \\ 0.9$	3:51 14.0	10:07 1.0	S	29	5:22 1.8	11:44 12.7	5:57 2.4	
Tu	10	1:52	8:01 13.7	2:05	8:18 13.9		20	4:04 14.0	10:26 0.2	4:30 14.7	10:45						

The tides are placed in the order of their occurrence: the *times* of high and low tides are shown on the upper lines. The figures in boldfaced type are hours and elevations between noon and midnight; ente meridian figures are given in the ordinary lightfaced type. The time is Cosmopolitan Standard for the meridian 75° W.

The elevations of the water are shown on the second line for each day; a comparison of consecutive beights will indicate whether it is high or low water. Heights are reckoned from mean low water springs, which is 8.3 below mean sea level and is the datum of soundings on the Coast and Geodetic Survey charts for this region. The depth of water may accordingly be estimated by adding the tabular height of the tide to the soundings, unless a minus (-) sign is before the height, in which case it is to be subtracted. The annual inequality or variation in the mean sea level is included in the predictions.

### Executive Order.

Civil Service Rule IX, Paragraph I, Clauses (b), (c), and (d) are hereby amended to read as follows:

(b) A person honorably released from the active military or naval service of the United States after service in the Civil War or the War with Spain, or his widow, or an Army nurse of either war, separated heretofore from the competitive classified service, may be reinstated in the department or independent establishment from which separated without time limit. If hereafter separated, reinstatement may be made within five years from the date of separation.

(c) A soldier, sailor, marine, or Army nurse of the War with Germany formerly in the competitive classified service may be reinstated in any part of the competitive classified service within five years from the date of honorable cessation of active military service if he has the required fitness to perform the duties of the position to which

his reinstatement is sought.

(d) The widow of a veteran of the War with Germany formerly in the competitive classified service who was the wife of such veteran while he was in the military service may be reinstated in any part of the competitive classified service within five years from the date of cessation of her husband's military service by death or otherwise

This amendment is merely a change in phraseology to make the language of the reinstatement rule conform exactly to the long established practice of allowing reinstatements without regard to the year limit to persons whose military services terminated honorably in some other manner than by honorable discharge.

WOODROW WILSON

THE WHITE HOUSE, November 28, 1919.

[No. 3184.]

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286). Age limits do not apply to persons entitled to preference because of military or naval service:

Editor (male and female); \$2,000 a year; February 24, 1920; form 1312; age, under 40 years.* Physician (Panama Canal Service); \$200 a month; February 18, 1920 (male and female); No. 15-amended; form 1312; age, 22 years but not 31 years.

### Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. At claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Charles, alias James, Rowe Cyril Hinds James Lee, alias Chambers Reginald Phillips alias Reginaldo Felipe	23722 23665 36044 184455	Jamaica	Colon	Gatun Dam	January 20, 1920.  January 14, 1920.

### Official Circulars.

### Civil Service Age Limit Lowered.

THE PANAMA CANAL, EXECUTIVE OFFICE

BALBOA HEIGHTS, C. Z., January 21, 1920.

CIRCULAR No. 603-16:

1. The Civil Service Commission has approved reduction of the age limit from 20 to 18 years for admission to examinations on the Isthmus for the positions of clerk, postal clerk, stenographer and typist, and draftsman, for The Panama Canal

2. The minimum age limit specified in paragraph 2 of Circular No. 603 of April 1, 1914, is modified accordingly for such employment.

JAY J. MORROW, Acting Governor

### Pay Car Schedule.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT,

BALBOA HEIGHTS, C. Z., January 20, 1929. The following approximate schedule for the pay car for all Panama Canal and Panama Railroad employees will be followed as closely as possible beginning with the payment for the month of

February: From Balboa Heights.

9th.-Leave Balboa station 6.45 a. m. 7.00 to 7.16 7.20 to 7.25 7.35 to 78.05 8.10 to 8.30 Balboa Hotel..... La Boca Road..... 8.35 to 8.50 8.55 to 9.05 Balboa shops..... 9.10 to 10.20 Roundhouse. 10.25 to 10.30
Pier No. 18. 10.35 to 10.40
Material yard. 10.45 to 10.50

^{*}Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

are than 12

basis and all hours greater

24-hour l

on the

Hours are expressed

*Other than ships passing through the Canal.

ship.

Cable  $\epsilon$ 

91bLeave Balboa station 6.45 a	ni —Contd
	10.55 to 11.00
Quartermaster's store	
Ancon	11.05 to 12.30
Panama yard	12.35 to 12.40
New Army site, Miraflores	12.50 to 1.25
Corozal	1.30 to 1.35
Spillway	1.40 to 2.05
Arrive Balboa station	2.25 p. m.
10sh.—Leave	6.45a. m.
Cold Storage plant, Mount	
Норе	8.15 to 8.45
Printing plant	9.15 to 9.20
Cristobal shops	9.25 to 9.45
Coaling plant	9.50 to 10.30
Camp Bierd commissary	10.35 to 10.40
Laundry, etc	10.45 to 11.05
Washington Hotel	11.15 to 11.25
Panama Railroad station.	11.30 to 11.40
	12.30 to 1.30
Siding back of commissary	
Arrive Balboa	2.45 p. m.
11th.—Leave	6.45 a. m.
Red Tank	7.00 to 7.10
Pedro Miguel	7.15 to 7.40
Las Cascadas	8.00
Empire	8.15 to 8.30
Culebra	8.35 to 8.40
Pumping station	8.45 to 8.50
Paraiso	9.00 to 9.15
Main line, Pedro Miguel	
to Gatun	9.20 to 10.40
New Gatun	10.45 to 11.30
Colon	12.00
Gatun	1.00 to 1.15
Arrive Balboa	2.30 p. m.
All outside payments not schedu	

be made on such dates as best suit all concerned These dates are agreed upon as early as possible each month.

It is desired that all silver employees with regular pay tickets be paid from the pay car. Any employee missing the pay car will be paid at either of the pay offices after the 11th.

R. W. GLAW, Paymaster, The Panama Canal

Approved: JAY J. MORROW, Acting Governor.

### Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT

Balboa Heights, C. Z., January 17, 1920. GIRCULAR No. 227;

Effective January 14, 1920, Mr. R. Z. Kirk-patrick is designated an accountable official of The Panama Canal, and as such will account for all nonexpendable property in use by the Division of Meteorology and Hydrography.

H. A. A. SMITH, Auditor, The Panama Canal Approved: JAY J. MORROW,

Acting Governor.

### Administrator's Sale.

The Administrator of Estates, room 301, Administration Building, Balboa Heights, will accept aministration Building, Balboa Heights, will accept written bids up to 2 p. m. Saturday, February 7, 1920, for the purchase of a wooden tool box and a lot of electrician's tools belonging to the estate of Frank R. Jay, deceased American employee. Itemized lists of the articles offered for sale will be found posted at Canal Zone post offices and clubhouses, and persons desiring to examine the property may do so on business days, until 4.30 p. m., January 24, at room 203, Terminal Building, Cristobal, and after that date at the Administrator's office, Balboa Heights. Bids may embrace the entire collection, or be limited to single items. They should be submitted to the Administrems. items. They should be submitted to the Adminis-trator of Estates in sealed envelopes, marked "Bid on effects of Frank R. Jay, deceased." The Administrator reserves the right to reject any or all bids, and no advance deposit of money is required.

# page 349. OF OCEAN VESSELS.—Continued from OVEMENTS

Continued.	*DEPARTURES.	Date. Vessels. Line. For.	Jan. 23.     Arabia (k).     W. V. N. Powellson     Colon.       Jan. 24.     Gen. O. H. Ernst.     Panama Railroad Steamship Line.     New York and Haiti.       Jan. 24.     Santa Leonora.     United States Army.     New Orleans, Porto Rico		*DEPARTURES.	Jan. 18.         La Habra.         W. Wilhelmsen.         Port San Louis.           Aan. 23.         (Jundian) (D. Cen, & S. A. Tel. & Cable Co         High seas.           Jan. 24.         Caribbean.         Fanama Railroad (astle Industry Corino.
PORT OF CRISTOBAL—Continued.	-		Jan 22 Jan 22 Jan 23 Jan 23 Jan 24 Jan 24	or ballbo		Jan. 18 Jan. 23 Jan. 24
		From.	and Sa re, way	FORT		Callao. High seas.
	*ARRIVALS.	Line.	Gulf & Southern S. S. Co.  Panama Railroad Steamship Line.  Norfolk.  Norfolk.  Norfolk.  Norfolk.  Norfolk.  Norfolk.  Norfolk.  Prench Government.  High seas.  Astmacho Navigation Co.  La Guayar.  United States Army.  New York.		*ARRIVALS.	W. Wilhelmsen. Cen. & S. A. Tel. & Cable Co High seas.
		Vessels.	W. M. Tupper Ulysses Tallec Enginee Sohrmeet Astmacho III Princess Matoika			La Habra
		Date.	Jan. 23. Jan. 23. Jan. 23. Jan. 24. Jan. 24. Jan. 24.			Jan. 17 Jan. 22

### Joint Commission.

### Rules of Dismissal.

In the matter of the claim of Rudolph Werner, in which rule of default has been entered, rule of dismissal No. 449, docket No. 1617, January 19, 1920—On April 13, 1916, the Joint Commission, with the approval of the two Governments, parties to the Treaty, adopted a rule relative to the continuance or dismissal of claims in which the claimants are not ready for trial on the date their claims are set for hearing or who fail to their claims are set for hearing, or who fail to appear for hearing. This rule provides for the entering of a rule of default against claimants who fail to appear when called. This rule also provides

that:
"Upon the entry of such rule of default, notice
thereof shall be given by four successive publications, one each week, in the English and Spanish languages, in newspapers of general circulation in the Republic of Panama, notifying such claim-In the Republic of Panama, notifying such clamants to appear in person or by attorney within sixty (60) days from the first of said publications and show good and sufficient cause why such default should be set aside, and take active steps to prosecute their claims, and failing to so appear within sixty days from said first publication their claims will be considered as having been either settled or abandoned, and the same will be dismissed and forever barred."

settled of abandoned, and the same will be dis-missed and forever barred."

In the claim of Rudolph Werner, docket No. 1617, set for hearing on November 17, 1919, there was no appearance on the part of claimant, nor did any counsel for claimant appear, and a rule of default was accordingly entered against him

of default was accordingly entered against him.

Due notice having been given as provided for in the above-quoted section of the rule of the Commission, and there having been no appearance by claimant in person or by counsel during the 60-day period fixed in the rule referred to, which began on November 18, 1919, the foregoing claim against the United States is hereby dismissed and forever barred.

FEDERICO BOYD, GEORGE A. CONNOLLY, JULIO J. FABREGA, BURT NEW, Commissioners.

In the matter of the claim of Mortimer Davis for property located in the City of Colon, rule of dismissal No. 450, docket No. 3563, January 20, 1920—An examination of the claimant's statement of claim in this case shows that in accordance with the decision of the Joint Commission in the matter of the claim of Carlos Delgado, docket No. 749, rendered February 28, 1919, the above-entitled claim is beyond the jurisdiction of the Commission, and the same is therefore hereby dismissed.

FEDERICO BOYD, GEORGE A. CONNOLLY, BURT NEW, Commissioners.

I dissent from the above finding.

JULIO J. FABREGA, Commissioner:

In the matter of the claims of Santiago Samudio In the matter of the claims of Santiago Samudio for property located in the District of Empire, rule of dismissal No. 451, docket Nos. 3095 and 3096, January 20, 1920—After a full hearing of the above-numbered and described claims the Commission is of the opinion that no sufficient evidence has been presented to justify an award against the United States, and for that reason the two claims of Santiago Samudio, docket Nos. 3095 and 3096, together with the intervention filed by Vincente A. Avila, and also the intervention filed by J. H. Stilson, Ruben S. Arcia, and Romano Emiliani, should be, and they are hereby, dismissed.

FEDERICO BOYD, GEORGE A. CONNOLLY, JULIO J. FABREGA, BURT NEW. Commissioners.

Sale of Motor Launch.

Sealed bids will be received at the office of the District Engineer, U. S. Army, Balboa Heights, C. Z., until 2 o'clock p. m., on Saturday, February 14, 1920, and then publicly opened, for the purchase of:

One (1) boat, gasoline; length 28 feet, beam 7 feet 8 inches, draft 3 feet 6 inches, 20 horsepower Lathrop 2-cycle engine. U. S. Navy No.

Detailed information and form for bid may be had on application to office of District Engineer, Balboa Heights, C. Z. Boat may be inspected at Engineer Depot, Corozal, C. Z., between 8 a. m. and 4 p. m.

The right is reserved to reject any or all bids.

Pure Bred Poultry For Sale

Fulle Bled Foultry For Sale.
The Cattle Industry Division, The Panama
Canal, has for sale the following poultry:
25 White Leghorn hens, ea
16 White Leghorn cockerels, ea 9.00
25 Rhode Island hens, ea 5.00
The poultry can be seen at Summit Poultry
Farm. Prices quoted are f. o. b. Summit.

Additions to Commissary Stock. Dry Goods Section. Belts, sanitary, elastic, ea. \$0.45
Brushes, hair, wire, ea. 67
Caps, men's, blue serge, ea. 1.00
Curtain, Swiss, Madras, white, 36", yd. .58 Dress goods: Batiste, white, 38", yd.
Swiss, dotted, yd.
Hose, ladies', white, pr
Powder, face, Java, white, flesh, or
brunette, box..... ,65 .62 .84 . 42 Puffs, powder, white swansdown, ea..... Stationery: Paper, writing tablets, linen finish, letter size, Chesterfield, ea..... .21 .80 Suiting:
Drill, union, bleached, 27", yd.
Linen, shrunk, 27/28", yd.
Serge, blue, 56/38", yd.
Serge, blue, 56/38", yd.
Serge, blue, 54", (16186) yd.
Serge, blue, 54", (16187) yd.
Suits, union, gauze, ladies', suit.
Ties, fancy silks, 4-in-hand, ea
Towels, glass, 32" x 36", ea. Suiting: 4.30 4.55 1.60 1.60 .95 1.40 .51 Grocery Section. .13 44 .05 Hardware Section. 2.35 5.40 Freezers, ice cream, 4-quart, ea.....

### COMMISSARY NOTE.

### "Koumyss."

"Koumyss," a milk product, is now being manufactured by the Commissary Division and sold in the retail stores. It is made from fresh milk, yeast, and sugar. Its use, in the United States and Europe, both as a beverage and in the sick room,

is said to be largely increasing, as it is refreshing and nourishing.

## THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

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Volume XIII.

Balboa Heights, C. Z., February 4, 1920.

No. 25.

### Visit of Japanese Naval Training Ship.

The Japanese cruiser *Yakumo*, in use as a training ship for the Japanese navy, arrived at Balboa in the morning of February 4, for a visit to the Canal and Panama. She has on board a total personnel of 741. Arrangements have been made to take the officers and midshipmen through the Canal as far as Gatun Locks and to take the enlisted men to Miraflores Locks, each party to be divided into two groups. Social entertainments have also been planned.

### The "Marne" Still Burning.

Fire continues to burn in the oil aboard the American steamship *Marne*, which was sunk in the outer harbor at Cristobal on January 24 in order to extinguish fire in the hold, the result of an explosion in the cargo. The fire is now confined to the No. 3 hold, below the superstructure, which prevents access by the monitors on the fire tug. Arrangements are being made to try to smother the fire with steam on February 5.

### Traffic Over the Principal Trade Routes.

The distribution of the traffic through the Canal, over the principal trade routes, in the 6-month period ending December 31, 1919, is presented in the following table:

	Ves- sels.	Panama Canal nct tonnage.	Cargo.	Percentage of tonnage.	Percentage of cargo.	Percentage of all net tonnage.	Percentage of all cargo.
United States to west coast of South America. Cristobal to west coast of South	115	351,876	267,016	19.051	14.783	9.073	6.465
America. United States to Far East. Europe to west coast of South America. United States to Australia and New	107 90 59	153,928 390,182 234,903	66,675 622,926 76,825	8.334 21.125 12.718	3.691 34.489 4.253	3.969 10.061 6.057	1.614 15.084 1.860
Zealand	35 23 23	185,655 119,710 99,929	216,634 198,664 146,108	10.051 6.481 5.410	11.994 10.999 8.089	4.787 3.087 2.577	5.245 4.810 3.533
Europe to Australia and New Zealand. Europe to west coast of North America. Cristobal to west coast of North	15	138,068 64,184	66,056 32,096	7.475 3.475	3.657 1.778	3.560 1.655	1.599
America	*11	18,662 15,647	17,781 7,180	1.010 .847 2.474	.984 .398 4.359	.481 .403	.430 .174
West Indies to west coast of South America. Cuba to west coast of South America	10 2 2	45,685 9,598 6,911	78,733	.519	4.009	.247	1.900
Canada to Australia and New Zealand Canada to west coast of South Ameri-	1	5,532 3,374	7,000	.299	.389	.143	.169
Cuba to west coast of North America Cristobal to west coast of Central America	1	2,459 692	1,439	.038	.079	.063	.035
Total	528	1,846,995	1,806,153	100.000	100.000	47.624	43.731

	Ves- sels.	Panama Canal net tonnage.	Cargo.	Percentage of tonnage.	Percentage of cargo.	Percentage of all net tonnage.	Percentage of all cargo.
PACIFIC TO ATLANTIC.  West coast of North America to Europe West coast of South America to Cris-	133	293,413	410,552	14.447	17.668	.7.566	9.941
tobal	113 106	182,104 390,372	175,166 538,528	8.967 19.219	7.538 23.176	4.695 10.006	4.241 13.040
West coast of South America to Europe Australia and New Zcaland to Enror e	63 58	247,800 382,646	364,562 357,265	12.201 18.839	15.689 15.375	6.389 9.867	8.827 8.65 <b>8</b>
West coast of South America to east coast of United States	57	178,948	228,839	8,811	9.848	4.614	5.541
West coast of South America to Mexico Far East to east coast of United States Miscellaneous	24 18 *11	123,548 80,962 31,270	128,075 22,191	6.083 3.987 1.539	5.512 .955	3.185 2.087 .806	3.101 .537
West coast of North America to Cristobal	10	17,084 15,358	10,801 17,490	.842 .757	.465 .753	.440 .396	.262 .422
West coast of North America to Mexico Australia and New Zealand to east	5	35,132 24.742	30,693	1.729	1.321	.907	.744
coast of United States	2	5,797	6,636	.286	.285	.149	.162
Coast of Canada	1 1 1	5,431 5,298 3,789	7,403 7,392 6,000	.267 .260 .186	.319 .318 .258	.141 .137 .099	.179 .179 .145
West coast of South America to Porto Rico	1	2,813 1,502	5,336 2,357	. 138 . 073	.229	.073	,129 .058
Canada to east coast of United States West coast of Central America to Cris-	1	1,454	2,725	.071	.117	.038	.067
West coast of Central America to east coast of United States	1	692 531	223 954	.034	,009	.018	.000
South Sea Islands to east coast of United States.	1	398	469	.020	.042	.014	.012
Total	624	2,031,084	2,323,657	100.000	100.000	52.376	56.269
Grand total	1,152	3,878,079	4,129,810			100.000	100.000

*The vessels classified as on miscellaneous routings were as follows:

*The vessels classified as on miscellaneous routings were as follows:

*Atlantic to *Pacife**—July*, I vessel of 5.443 net tons with no cargo from Rio de Janeiro to San Pedro; August, I vessel of 1.856 net tons with 4.300 tons of cargo from bigh seas to Balboa, I vessel of 587 net tons with no cargo from Perto Plata to Salina Cruz and I vessel of 65 net tons with no cargo from Port Limon to Balboa; September, I vessel of 1.713 net tons with 2.440 tons of cargo from Brazil to Seattle; October, I vessel of 100 net tons with 208 tons of cargo from New York to Tahiti; November, I vessel of 350 net tons with 232 tons of cargo from Curacao to Buenaventura, I vessel of 4.833 net tons with no cargo from Barbados to Mejillones; December, I vessel of 1.72 displacement tons with no cargo from Port Limon to Montevideo, I vessel of 1.75 net tons with no cargo from bigh seas to Balboa, and I vessel 115 net tons with no cargo from high seas to Iquique.

*Pacific to Atlan ie—July, I vessel of 4.71 net tons in ballast from San Francisco to Beaumont, I vessel of 1,779 net tons in hallast from Mollendo to Bluefields, I vessel of 1,671 net tons with 2,805 tons of cargo from Hongkong to Habana, and I vessel of 5.414 net tons with 9,236 tons of cargo from Hongkong to Habana and I vessel of 5.456 ent tons in ballast from Vokohama to Habana, September, I vessel of 1,609 net tons with 1,236 tons of cargo from Seattle to New York, I vessel of 1,758 helds and I vessel of 1,728 to tons with 1,724 tons of cargo from Seattle to Cienfuegos; November, I vessel of 4,562 net tons with 7,100 tons of cargo from Iquique to Alexandria; December I vessel of 2,788 displacement tons with no cargo from San Diego to Jamaica, and I vessel of 175 net tons in ballast from San Francisco to Cristobal.

of 175 net tons in ballast from San Francisco to Cristobal.

## Notice to Mariners.—Temporary Wreck Light Established in Cristobal

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., January 29, 1920.

CIRCULAR No. 643-71:

1. On January 27, 1920, an occulting green light, 180 candlepower, was established on the stern of the steamship Marne (destroyed by fire and sunk about 350 yards from the West Breakwater in 40 feet of water, upper works showing above water), on the following bearing:

West Breakwater Beacon 46° 30′ true (NE 1-4 N. Mag.). Washington Hotel, right tangent, 117° 30′ true (SExE 15-16 E. Mag.).

Toro Point Lighthouse 251° 45' true (WSW Mag.).

Characteristics: 1 second light; 0.5 second dark.

2. Vessels are cautioned not to pass between the wreck and the breakwater. The Marne lies in the following directions: 353° true (NxW Mag.), headed almost at right angles to the West Breakwater.

CHESTER HARDING,

Governor.

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending January 31, 1920.

				Carg	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Balboa	Colombian Maritime Co. Chileau Steamship Co. Hartison Line. Pacific Mail Steamship Line. United S ates Shipping Board United States Government Panama Railroad Steamship Line. French Line. United States Government. Italian Steam hip Line. Pacific Mail Steam hip Line. Pacific Mail Steam hip Line. Pacific Steam Navigation Co. United Fruit Co. United Fruit Co. United States Government. Chilean Steamship Line. Pacific Mail Steamship Line. Pacific Mail Steamship Line. United Fruit Co. United States Shipping Board. United States Shipping Board. United States Shipping Board.	January 25. January 25. January 25. January 26. January 26. January 27. January 27. January 28. January 28. January 28. January 28. January 29.	January 25 January 26 January 26 January 27 January 27 January 27 January 28 January 28 January 30 January 31	70ns.  3,466 15 9,237 3,089  500 1,501 432 1,093 1,286 1,069 6,353 1,804 730 8 12,025½ 2,749 3,5552	Laded.  Tons. 408 398 154 2,137  514 (†) 110 1 17 17 17 1,061 48 289 (†) 1 (†) (†) (†)
Huallago. West Harlan. Nika. Monsterrat. Panama	Peruvian Steam hip Line United States Shipping Board Hodge Shipping Co Spanish Steamship Line Panama Railroad Steamship Line.	January 30 January 30		2,260¼ 7,652 425 340 2,068	• • • • • • • • • • • • • • • • • • • •

(*) U. S. A. transport.

† No cargo laded.

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending January 31, 1920.

				Cargo-		
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.	
Houma Balboa Cauca San Juan	Pacific Mail Steamship Co. United States Shipping Board. Colombia Maritime Co. Pacific Steam Navigation Co. Pacific Mail Steam hip Co. Rolph Navigation Co.	January 23* January 25 January 26 January 27	January 26 January 25 January 27 January 29	(*)	Tons. 2 14 (†)	

* Shown in last week's report.

† In port.

### Executive Order.

The area of land hereinafter described, situated in the Canal Zone, consisting of two parcels, which include Fort Clayton, The Panama Canal Arsenal, The Engineer Depot, and the Post of Corozal, is hereby set apart and assigned to the uses and purposes of a military reservation under the jurisdiction of the Secretary of War; but the said area shall be subject to the civil control and jurisdiction of the Governor of The Panama Canal, in conformity with the Panama Canal Act.

The boundaries of said reservation are described as follows: (Panama Canal Cir-

cular 601-102 contains these boundaries.)

No structure shall be constructed by the military authorities within two hundred (200) feet of the present banks of the Canal.

The transfer of the reservation including Fort Clayton, The Panama Arsenal, The Engineer Depot, and the Post of Corozal, is made subject to the continued right of the Supply Department of the Panama Canal to use areas not contiguous to barracks or quarters for pasturage of cattle for the supply of beef to the Canal Zone; the pasturage areas, however, to be available for use by the troops when required for military maneuvers or for target practice.

WOODROW WILSON

THE WHITE HOUSE, December 30, 1919.

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight, January 31, 1920.

THROUGH THE CANAL -- ATLANTIC TO PACIFIC.

Cana	asa	Net	350 2,475 11,699 4,970 4,970 1,582 1,582 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1
Panama Cana Tonnama	1004	Gross	741 741 741 752 752 752 752 752 752 752 752 752 752
	Tons		8, 080 2, 128 2, 128 3, 509 6, 509 7, 500 7, 500 8, 300 8, 300 8, 300 1, 565 1, 865 1, 865 1, 865 1, 865
	Cargo		General General General General Fetroleum General Cotton, steel, etc General
	For		Buenaventura. San Francisco Valparaiso Artofagasta Artofagasta Shangtai San Diego Balboa Balb
	Prom		Cristobal  Cristobal  Cristobal  Cristobal  New York  New Ordens  New York  Coco Solo  C
Salt		The str	22
	Веаш		2441444529 0.00000000000000000000000000000000000
	Length Beam		1990 1990 1990 1990 1990 1990 1990 1990
	Line		Colombian Maritime Co. Lancashive Shipping Co. South American S. S. Line. United States Shipping Board Bank Line. Ltd. United States Navy Rederal Steam Navigation Co. Commonwealth & Dominion Line United States Shipping Board La Verore Steam Navigation Co. Pacific Steam Navigation Co. Pacific Steam Navigation Co. United States Shipping Board Pacific Steam Navigation Co. Practic Steam Navigation Co. Practic Steam Navigation Co. Practic Steam Navigation Co. Practic Steam Navigation Co.
	Nationality		American British American Chilean British American British American American American American American American American American American British American British Norwegaan
Cleared for sea	_mc	ЭН	19.06 17.45 17.45 17.50 18.00 18.50 18.55 17.50 18.17 18.21 18.21 18.21 19.00 19.00 19.00 19.00
	3y	D	333333333333333333333333333333333333333
Completed transit	inc	H	25   13.53   25   19.0   25   16.15   53   25   17.4   25   16.15   52   17.4   26   16.15   52   17.4   27   15.32   27   18.5   27   15.17   27   18.5   27   18.34   27   18.34   27   18.34   28   17.4   29   14.0   29   14.0   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   18.0   31   19.1   31   18.0   31   19.1   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.4   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31   17.5   31
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Entered Canal	inc	H	000000000000000000000000000000000000000
E C	sy	D	333139993 88827272728888888
Arrived at port	inc	ЭН	16.15 16.06 16.06 18.35 18.35 19.43 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11
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Ship			Balboa 21 16.15 25 6  Dare Caraste 22 16.5126 8  Point Adams 22 6.5126 8  Coulee 26 19.43 27 6  Cyclee 25 19.43 27 6  Belelyn (28) 25 11.15 27 6  S. C. 284 & 287, 11 14.57 27 7  R-26 (b) 11 14.57 27 7  R-26 (c) 11 14.57 27 7  R-26 (c) 11 14.57 27 7  R-27 (c) 11 14.57 27 7  R-26 (c) 11 14.57 27 7  R-27 (c) 11 14.55 27 7  R-27 (c) 11 14.55 27 7  R-27 (c) 11 14.55 27 7  R-27 (c) 27 7

2,459 2,459 2,459 3,345 3,345 4,440 3,221 5,012 6,621	4,395
7,102 102 103 103 103 103 103 103 103 103	5,919
5,500 6,775 6,775 1,520 6,109 7,778 7,323 9,200	7,774
General General General Ceneral Nitrate Nitrate Nitrate Nitrate Ballar Nitrate	Nitrate
Liverpool New York Nantes, France Cristobal Cristobal Durkirk Savannah Pounkirk Texas City. Genoa	Antwerp
Puntarenas shamphai Mejillones shamphai Mejillones sham Francisco Caleta Coloso Caleta Burna Iquique Balboa Balboa Caleta Buena Caleta	385.0 51.0 26.6 Mejillones
25.0 26.9 20.0 20.0 20.0 20.0 20.0	26.6
50.2 50.3 50.3 50.3 50.3 50.3 50.3 50.3 50.3	51.0
391.5 445.0 365.2 345.0 365.0 407.2 407.7 434.8	385.0
Pacific Steam Navigation Co. Nippon Kisen Kaisha. West Australian Government. Pacific Mail Steam ship Co. Cia Naviera Sota y Asuar Mitsui & Co. American Lawaiian Line. United States Shipping Board Lloyd del Pacifico.	Kokusai Kisen Kaisha
British Japanese British American Spanish Japanese American American American	26 [22.37] 27   5.05 Japanese
23.30 6.28 6.28 1.20 1.20 1.20 6.30 6.30 6.30 6.30 6.30 6.30	5.05
27 25 26 25 27 27 27 27 27 27 27 27 27 27 27 27 27	37 27
81121111111111111111111111111111111111	6 22.
10.10 10.10 13.42 13.42 13.42 13.42 13.42 14.42 16.60 10.06 10.06 10.03 12.07 12.07	43
20 26 25 25 20 26 26 26 26 26 26 26 26 26 26 26 26 26	50 26
25 9.00 25 9.15 25 9.15 20 23.40 25 19.30 26 25 19.30 26 27 28 15 28 11 20 26 11.20	6 12.
Junin Arru Zokiwa Maru Zokiwa	Maru 26 12.50 26 13.

THROUGH THE CANAL-PACIFIC TO ATLANTIC.

(c) Motor schooner. (d) For orders.

Kobe. Valparaiso.

Jan. 27. . . Meiko Maru. . . . | Meijo Kaiun Kisen Kaisha. Jan. 27. . . | George W. Elder . . | Refinerie Agencia.

*DEPARTURES.

Colon. Puerto Colombia Colon.

Alpa Steamship Corporation.....

Jan. 30..... Jan. 31.....

PORT OF BALBOA.

5,510 2,799 1,722 5,530 6,564 4,186 7,186 6,564 4,186 7,186 6,544 4,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186 7,186		For.	Bluefedds and Colon. Galveston, Texas. Ciethweston, Texas. San Nazaire, wayports. Bluefedds, and Porto Rieo, New York and Limon. New York and Kingston Cartagena. New York and Kingston Cartagena. New Orleans, wayports Martiniqua. Guantanamo. Bluefedds. Colon. Purito Colombia
Catun Lake   Nitrate   3,511     Botterdam   (i)   (i)   5,589     Botterdam   (i)   7,530     Cristoloal   Coperal   1,933     Cristoloal   Coperal   1,933     Numington   Nitrate   5,130     New York   Copper mirate   5,130     Cristoloal   Ceneral   6,130     Cristoloal   Ceneral   6,000     Cristoloal   Ceneral   7,734     Cristoloal   Ceneral   7,334     Cristoloal   Ceneral   3,400     New York   General   2,960     Cristoloal   Ceneral   3,400     Cristoloal   Ceneral   1,965     New York   Ceneral   1,965     Cristoloal   Ceneral   1,965     Cri		*departures. Line.	Bluefields Fruit Co.  Harrison Line Guil & Sunthern Steamship Co.  Guil & Sunthern Steamship Co.  United States Shipping Board United Fruit Co.  United States Shipping Board  W. N. Newellson.
43. 6. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		Vessel.	San Juan (k)   Blue
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Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

*Other than ships passing through the Canal.

Jan. 26. .... | Meiko Maru..... | Meijo Kaiun Kisen Kaisha..... | Iquique.

*ARRIVALS.

(k) Tug.

Cruiser.

### Freight Tariff.

Effective February 1, 1920, the Panama Railroad Steamship Line has issued Freight Tariff No. 3 (canceling Freight Tariff No. 1) on general merchandise between Cristobal, C. Z., and Cartagena. Colombia. Rates published herein are subject to change.

RULES AND REGULATIONS.

Item 1. Prepayment of freight charges.

All freight and other charges must be prepaid.

Item 2-Minimum charges.

The minimum charge on any one bill of lading will be \$2 on freight, plus other charges.

Item 3—Heavy and bulky packages.

Rates published in this tariff do not apply on packages or pieces, the weight of each exceeding two tons. Such packages will be handled only by special agreement. Item 4—Charges at Cartagena.

In addition to published rates herein to and from Cartagena, Colombia, the follow-

ing charges will be assessed:

Shipments destined Cartagena:
Stamp duty on each set bills of lading.
Tonnage dues per 1,000 kilos.
Lighthouse dues per 1,000 kilos.
Manifest fee per \$100 on declared Consular invoice value.
Shipments originating in Cartagena:

All commodities, except those carrying ad valorem rates, will be subject to tonnage taxes and wharfage dues of \$1.58 per ton of 40

cubic feet or 2,240 pounds as freight is paid.

Item 5-Consular fees and regulations.

Shippers should be especially careful to see that Consular and other documents are properly prepared. All expense thus incurred will be for account of shipper.

Item 6—Care of live stock.

Live stock is carried only at owner's risk of injury and death, the attendance and care of which will be handled entirely by shipper. Arrangements for handling must be made with the Cristobal office before shipments are accepted for transmission. Item 7—Charges for delivering and receiving cargo at Cristobal.

In addition to the rates published in this tariff, the following charges applying per ton of 40 cubic feet or 2,000 pounds, as freight is paid, except as otherwise provided, will be assessed for delivery or for receiving, landing on dock or delivery to ship's side of cargo at Cristobal, which charges are provided for in Panama Canal Tariff No. 3 and supplements thereto:

	Rate.
General cargo, per 2,000 pounds or 40 cubic feet ton as freighted	\$0.85
	ψ
Cotton, wool, Kopok, hemp, bark, leather hides and similar commodities:	
Per 40 cubic feet ton as freighted.	. 85
Per 2,000 pounds ton as freighted	
Explosives, per 2,000 pounds or 40 cubic feet ton as freighted	
Live stock:	
Horses and muleseach	1.00
Cows, bulls, steerseach	. 75
Calves, goats, dogs, hogs, and sheepeach	. 50
Other than above when crated, per ton of 2,000 pounds or 40 cubic	,
feet as freighted	1.00
0 1, 1, 1	

Cargo for the city of Colon will be delivered at the option of the Panama Railroad Company either through its freight house or from cars on the team track. Panama Canal regulations provide that all outgoing cargo must be delivered through the local

freight house at Cristobal.

Gasoline, wines and other liquids are accepted only at owner's risk of leakage. Glassware, crockery and all fragile property. only at owner's risk of breakage Perishable property only at owner's risk of heat and decay. Deck cargo only at owner's risk.

Commodities in sacks are accepted without responsibility as to weight on delivery to consignees, except when the entire cargo is weighed by the shipper in the presence of a representative of the carrier, the expense of which will be for account of shipper. Item 9—Parcel receipts.

Parcel receipts value limited to \$5 each will be issued at \$1 on packages not exceeding

two cubic feet.

### Freight Tariff.

Effective February 1, 1920, the Panama Railroad Steamship Line has issued Freight Tariff No. 4 (canceling Freight Tariff No. 2) on commodities from Cartagena, Colombia to New York, N. Y. Rates published herein are subject to change.

### RATES OF FREIGHT.

(In United States currency or its equivalent.)	
Commodity.	Rate.
General merchandisc, per 40 cubic feet or 2,000 pounds ship's option Cattle, horses, etc. (see Item 5):	\$6.38
Horseseach.	15.00
Muleseach	
Steers, bcefeach	15.00
Bullseach	15.00
Steers, leaneach	12.00
Cowseach	12.00
Yearlingseach	8.00
Calveseach	4.00
Sheepeach	3.00
Hogseach.	4.00
Launches, 20 feet in length or over, subject to special arrangement.	
Launches, under 20 feet in length, per running foot	9.56
Lumber, except hardwood, per 1,000 ft. B. M.	8.00
Pears, alligator, on dock at owner's risk, per cu. ft	. 58
Poultry and animals (see Item 6) in crates, ship's option:	- 40
Per large crate	5.10
Per small crate	2.55
Rice, per 100 lbs.	. 38
Rowboats and yawls 20 feet in length or over, subject to special arrangement.	2 00
Rowboats and yawls under 20 feet in length, per running foot	3.82
Specie	r cent

### FREIGHT TARIFF NO. 4.—RULES AND REGULATIONS.

Item 1—Payment of freight charges.

All freight and other charges will be collected in New York.

Item 2—Minimum charge.

The minimum charge on any one bill of lading will be \$5 on freight, plus all other charges.

Item 3— Heavy or bulky packages.

Rates published in this tariff do not apply on packages or pieces, the weight of each exceeding two tons. Such packages will be handled only by special agreement.

Item 4—Tonnage taxes and wharfage dues.

All commodities, except those carried at ad valorem rates are subject to tonnage taxes and wharfage dues of \$1.58 per 2,240 pounds, or 40 cubic feet, as freight is paid.

Item 5-Consular fees and regulations.

Shippers should be especially careful to see that Consular and other documents are properly prepared. All expenses thus incurred will be for account of shipper. Item 6—Packages containing more than one commodity.

Packages containing commodities of more than one description will be charged at

the tariff rate for the highest rated commodity contained therein.

Item 7—Special cargo.

Packages containing specie and other valuable commodities, such as hats, wines, liquors, cigars, cigarettes, etc., will be classed as special cargo and will not be accepted for transportation unless securely packed in cases and protected by metal straps or wires secured by lead seals at the ends, or some equally effective device.

Item 8—Application of rates.

Rates published herein apply per cubic foot per hundred pounds or per centum ad valorem, carrier's option, except as otherwise specified.

Where commodities are not specifically provided for herein, rates applicable between the ports named in the reverse direction will apply.

Item 9-Marine insurance.

Rates published herein do not include marine insurance.

Item 10-Owner's risk.

Oils and other liquids are accepted only at owner's risk of leakage.

Glassware, crockery and all fragile property in packages, only at owner's risk of breakage.

Perishable property only at owner's risk of frost, heat, or decay.

Deck cargo at owner's risk.

Commodities in single sacks only at owner's risk of sifting.

Item 11—Packages exceeding \$100 in value.

Packages on which the valuation is declared on shipping papers at time of shipment to be in excess of \$100 each, or \$8 per cubic foot, shall be charged at tariff rates, subject to minimum charge of \$5 plus 1 per cent of value declared, excepting articles at ad valorem rates which shall pay only tariff rates.

Important—The carrier or carriers will not be liable in the event of loss or damage resulting from faults or negligence, as detailed in shipping papers, for more than \$100 per package or \$8 per cubic foot, unless such valuation is shown in shipping papers

and extra freight paid thereon.

Item 12-Parcel receipts.

Parcel receipts, value limited to \$5 each, will be issued at \$1 for the first cubic foot or fraction the eof, and 50 cents for each additional cubic foot or fraction thereof up to 9 cubic feet.

### RATES OF FREIGHT.

(In United States currency or its equivalent.)		
Commodity.	Pei	Rate
Ashphalt	100 lbs	\$0.41
Balata	100 lbs	2.09
Balsam		2.58
Bat guano		. 41
Birds and monkeys in crates		1.05
Bones, in bags.		. 62
Beans, in bags		.46
Bullion, gold		alorem
Bullion, silver	plus 1½ pe	r cent
Castor beans		. 62
Chocolate		.33
Chicle		2.09
Cigars and cigarettes.		1.33
Cocoa		1.17
Coconuts		9.37
Coffee, clean		.72
Coffee, husk		. 85
Copia		. 84
Copra		.36
Cotton	100 lbs	1.81
Cuararina		1.17
Divi divi	100 lbs	1.25
Drums, empty, returned	cu. ft	. 20
Extract, tannic	100 lbs	. 60
Feathers	.cu. ft	. 51
Fish oil	.cu. ft	.36
Flour, banana		.59
Fruit, on deck, crated	.cu. ft	.74
Grease		. 62
Guara		. 51
Gum, amber		2.09
Hair		1.81
Hats		
Hides, dry, loose, or in bales		1.81
Hides, green, salted, in bales	100 lbs	1.05

	ite.
Horns	
	58
	46
	33
Lumber, under 20-foot lengths	50
Lumber, 20-foot to 30-foot lengths	25
Mercury and mercury concentrates	59
Milk, dry, powder	59
Minerals, valuation limited to \$200 per ton	51
Minerals, valuation over \$200 per ton	nt
Monkeys, in crates (see Birds).	
	47
	51
	51
Platinum	
Rubber	09
	05
	26
Scrap, metal, except scrap iron, valuation limited to \$200 per ton, ship's option:	20
	63
	26
	63
Shells, turtle (or ship's option)	
	45
Skins:	L
	05
	51
	81
Specie, precious metals, jewels, money, etc	
	67
	46
	33
	09
Wines, whisky, etc. (see Liquors).	() >
Woods:	
	05
	26
	63
	26
	63
	93
	26
	54
	63
	93
	63
Mahogany, under 3 tons weight, each	63
	93
	51
	25
	20

### Weather Conditions. Canal Zone.

Rainfall for the year 1919 was below normal at all stations except Taboga, Chillibrillo, and Bocas del Toro, the deficiencies ranging from -4.19 inches at Juan Mina to -32.14 inches at Brazos Brook. October was the month of heaviest rainfall, and March the month of lightest rainfall at most stations. April and October were the only months with rainfall generally above normal. Annual totals ranged from 56.46 inches at Balboa to 147.15 inches at Porto Bello. The greatest amount of precipitation recorded on any one day was 9.09 inches at Porto Bello on April 23.

The air temperature, temperature of the sea, wind movement, and evaporation were above normal on both coasts, while the atmospheric pressure and relative humidity were below the average. The daytime cloudiness was above normal on the Atlantic

Coast and below on the Pacific side.

A severe wind storm occurred at Gamboa on the afternoon of September 26, during which a maximum velocity of 50 miles an hour was recorded from the northeast

Two unloading cranes at the Gamboa gravel plant were overturned and damaged approximately \$20,000.

A maximum wind velocity of 50 miles an hour from the south was recorded at

Gatun on June 17.

An observation balloon at Coco Solo was burned and a near-by mess hall struck by lightning and slightly damaged during a severe electrical storm that occurred on the Atlantic side on August 5.

Twenty-two seismic disturbances were recorded at Balboa Heights during the year. All of these were of light intensity and caused no damage in the Canal Zone and

vicinity.

Gatun Lake hydrology—Mean elevation of Gatun Lake was 85.61 feet; maximum 87.16 feet on December 3; minimum 83.70 feet on April 12; evaporation from Gatun Lake surface 57.738 inches; rainfall on Gatun Lake drainage basin 94.34 inches; total yield of Gatun Lake watershed 53.62 inches on watershed; the total yield amounted to 57 per cent of the rainfall.

The following table summarizes the weather conditions for the year:

	Temperature.				P	recipita	tion.			Win	d.				
Stations.	Pressure (reduce to mean of 24 hours).	Mean.	Maximum.	Date.	Minimum.	Date.	Greatest daily range	Mean relative humidity.	Total inches.	Station aver- age.	Total move- ment (miles).	Prevailing direction.	Maximum velocity in miles.	Direction.	Date.
1							_								
Balboa															
	29.841		94			Mar. 20	23		61.15		8.1	N.W.	36		Mar. 7
	29.850		92			Dec. 13	17		100.82	128.48	10.7	N.	33	N.	Nov.28
Gamboa		80 0	94		66	Mar. 21	24		62 02		5.4	N.E.	50		Sept.26
Gatun		80.4	92	May 18	70	Mar. 19	18		90 91	122.40	6.2	N.	50	S.	June 17

### Increase in Pay of Employees on the Silver Roll.

Effective February 1, the pay of employees on the silver roll was increased above the rates in effect on January 31, as follows:

Hourly rates, subsistence and nonsubsistence	\$0.02
Monthly rates,* subsistence and nonsubsistence	5.00
Per diem rates, subsistence and nonsubsistence	.15

^{*}Where the addition of \$5 to a monthly rate would increase the wage beyond the maximum of \$75 at present established, no increase may be made as of February 1. Increases for these rates have been recommended, and the Governor has requested that the Fxecutive Order on employments be so amended as to permit employment of aliens at a maximum of \$960 a year.

### Canal Clubhouses No Longer Connected with Y. M. C. A.

For the information of the public, it is announced that the Panama Canal clubhouses are no longer connected in any way with the Y. M. C. A. The clubhouses are now entirely under the jurisdiction of The Panama Canal, operated for the welfare of the employees of The Panama Canal and Panama Railroad Company.

The hospitality of the clubhouses is extended to the public, with the exception that dutiable supplies sold therein can only be sold to those

in the service of the United States Government.

Separate clubhouses are provided for white and colored employees.

### Executive Order.

The area of land hereinafter described, to be known as Fort William D. Davis Reservation, consisting of two parcels, situated in the Canal Zone, is hereby set apart and assigned to the uses and purposes of a military reservation, under the jurisdiction of the Secretary of War; but said area shall be subject to the civil control and jurisdiction of the Governor of the Panama Canal in conformity with the Panama Canal Act.

The boundaries of said reservation are described as follows: (Panama Canal

eircular No. 601-101 contains these boundaries.)

No structure shall be constructed by the military authorities within two hundred (200) feet of the present banks of the Canal.

The transfer of the Fort William D. Davis Reservation is made subject to the continued right of the Supply Department of The Panama Canal to use areas not contiguous to barracks or quarters for pasturage of cattle for the supply of beef to the Canal Zone; the pasturage areas, however, to be available for use by the troops when required for military maneuvers or for target practice.

WOODROW WILSON

THE WHITE HOUSE, December 22, 1919.

[No. 3203.]

### Executive Order.

Establishing Regulations for the Canal Zone relative to the sale, possession, and disposition of liquors for sacramental, scientific, industrial, pharmaceutical and medicinal purposes.

By virtue of the authority vested in me by section 20 of the Act of Congress entitled "An Act to prohibit intoxicating beverages, and to regulate the manufacture, production, use and sale of high-proof spirits for other than beverage purposes, and to insure an ample supply of alcohol and promote its use in scientific research and in the development of fuel, dye, and other lawful industries, effective October 28, 1919,

I hereby establish the following regulations for the Canal Zone:
Section 1. The Chief Health Officer of The Panama Canal, under the direction of the Governor of The Panama Canal, is hereby authorized and directed to administer the regulations established hereunder; and he may designate one or more assistants to aid him in the performance of his duties, who shall exercise such powers as the Chief

Health Officer may delegate to them from time to time.

Section 2. In conformity with Section 1, Title II, of the above mentioned Act of Congress, the word "liquor" when used in these regulations, shall be construed to include alcohol, brandy, whiskey, rum, gin, beer, ale, porter, and wine, and in addition thereto any spirituous, vinous, malt, or fermented liquors, liquids and compounds, whether medicated, proprietary, patented or not, and by whatever name called, containing one-half of one per cent or more of alcohol by volume, which are fit for use for beverage purposes: Provided, that the foregoing definition shall not extend to dealcoholized wine or to any beverage or liquid produced by the process by which beer, ale, porter or wine is produced, if it contain less than one-half of one per cent of alcohol by volume, and is otherwise denominated than as beer, ale, or porter.

In conformity with Section 1, Title III, of the above mentioned Act of Congress, the term "alcohol" means that substance known as ethyl alcohol, hydrated oxide of

ethyl, or spirit of wine, from whatever source or whatever processes produced.

Section 3. No liquors for sacramental purposes shall be imported into the Canal
Zone or possessed, used, or disposed of therein for that purpose except upon the written permit of the Chief Health Officer or his duly authorized assistant. The permit shall not be issued except upon a written application of a priest or other minister of the gospel, rabbi, or official of any religious sect residing within the Canal Zone. The application shall be dated, shall state the name of the applicant in full, his official position, his church or institution, and where it is located, and that he desires to import into the Canal Zone and use the liquors described in the application for sacramental purposes only, giving the quantity thereof, where he is to obtain the same, and how it is to be transported into the Canal Zone. The application shall state that the liquor applied for will be necessary to cover the sacramental use thereof by the applicant's church or congregation for a period of days to be stated in the application, and that he will undertake to the best of his ability to see that none of the liquor applied for shall be used for other than sacramental uses; and he shall also state the quantity, approximately, of any liquor he then has on hand for sacramental purposes. The application shall be signed by the applicant, and shall state his address for shipment purposes. If, in the opinion of the Chief Health Officer, the application should be granted, he

will endorse his approval thereon and sign the same officially and deliver it to the applicant; and the Chief Health Officer shall keep a record of each permit issued by

him or his assistants.

Section 4. No physician in the Canal Zone not employed by the Health Department of the Canal, the Army, Navy, or Public Health Service of the United States, shall be authorized to prescribe liquor to any patient unless the physician holds a permit issued by the Chief Health Officer of The Panama Canal; and all such permits shall be In writing, giving the date of issue, the name and address of the person to whom it was Issued, and shall designate and limit the acts which are permitted, and the time and place where such acts may be performed. The permit shall be signed by the Chief

Health Officer or his authorized assistant, and shall be delivered to the applicant; and the Chief Health Officer shall keep a record of each permit so issued by him or his assistant. No permit shall be required under this section from a physician in the employ of The Panama Canal, the Army, Navy, or Public Health service of the United

Section 5. No one but a physician, authorized to do so under the preceding section, shall be permitted to prescribe liquors for medicinal purposes in the Canal Zone, and no liquors shall be so prescribed except after careful physical examination of the person for whose use such prescription is sought, or if such examination is found impracticable, then only when upon the best information obtainable the physician believes that the issue of such liquor to such person is necessary and will afford him relief from some known ailment. A prescription issued bona fide under these regulations shall authorize the person named in the same to use and possess the liquor described in the prescription, and in the quantity and for the time therein

Section 6. No prescription issued by a physician not a resident of the Canal Zone shall authorize the introduction into the Canal Zone, or the use or possession therein of any liquor, unless such prescription shall have been approved by the Chief Health

Officer or one of his assistants.

Section 7. No druggist or pharmacist not in the employ of the Health Department of The Panama Canal or the Army, Navy, or Public Health Service of the United States, shall be authorized to issue liquors upon a physician's prescription, unless such druggist or pharmacist holds a written permit from the Chief Health Officer or one of his duly authorized assistants, and then only in the form and manner authorized by such written permit. No permit shall be required under this section from a druggist or pharmacist in the employ of The Panama Canal, or the Army, Navy, or Public Health Service of the United States.

Section 8. No liquors obtained outside of the Canal Zone shall be permitted to enter the Canal Zone, or to be possessed or used therein for sacramental, pharmaceutical, medicinal, industrial or scientific purposes except with the approval of the Chief Health Officer or his assistants; and such approval shall not be given unless such officer is satisfied that the liquor is intended to be used for the purposes enumerated

in this section, and in conformity with the law and the regulations.

Section 9. No liquor shall be manufactured for sacramental, medicinal, pharmaceutical, scientific, or industrial purposes, except in the laboratories of The Panama Canal; and no liquors shall be used for sacramental, medicinal, or pharmaceutical purposes except in the manner hereinbefore described; and no liquors shall be used for scientific or industrial purposes except upon authorization of the Chief Health Officer. The Chief Health Officer is hereby authorized and directed to issue, from time to time, such instructions as are not inconsistent with law, for the manufacture and use of liquors under these regulations.

Section 10. The articles enumerated in this section, after having been manufactured and prepared for market, shall not be subject to the provisions of these regulations.

if they correspond with the following descriptions and limitations, viz:

(a) Denatured alcohol or denatured rum produced and used as provided by the laws and regulations of the United States, now or hereafter in force.

(b) Medicinal preparations manufactured in accordance with formulas prescribed by the United States Pharmacopeia, National Formulary or the American Institute of Homeopathy, that are unfit for use for beverage purposes.

(c) Patented, patent, and proprietary medicines that are unfit for use for beverage

(d) Toilet, medicinal, and antiseptic preparations and solutions that are unfit for use for beverage purposes.

(e) Flavoring extracts and sirups, that are unfit for use as a beverage, or for intoxicating beverage purposes.

(f) Vinegar and preserved sweet cider.

The manufacture and preparation of such said articles, however, shall be subject to such conditions as the Chief Health Officer may impose.

Section 11. The Chief Health Officer may from time to time require any and all persons having in their possession any liquor for sacramental, medicinal, pharmaceutical, scientific, or industrial purposes, to submit a statement to him showing the amount of such liquor in their possession; and he is hereby authorized to issue from time to time such instructions as he may deem necessary to fully carry out these regulations, including instructions regarding the use of liquors by veterinarians employed by The Panama Canal and other departments of the government of the United States.

Section 12. Each and every violation of any of the provisions of these regulations shall be punished by a fine of not more than \$1,000 and imprisonment of not exceeding

six months for a first offense, and by a fine of not less than \$200 or more than \$2,000 and imprisonment of not less than one month nor more than five years for a second and subsequent offense, to be imposed by the District Court of the Canal Zone.

Section 13. These regulations shall be effective from and after this date.

WOODROW WILSON

THE WHITE HOUSE, January 7, 1920.

[No. 3210.]

### Executive Order.

### An Executive Order Concerning Costs and Security for Costs in the District Court and the Magistrates' Courts in the Panama Canai Zone.

By virtue of the authority vested in me by "An Act to provide for the opening, maintenance, protection and operation of the Panama Canal, and the sanitation and government of the Canal Zone," approved August 24, 1912, known as the "Panama Canal Act," I hereby establish and prescribe the following rules of practice to govern

the District Court and the Magistrates' Courts in the Panama Canal Zone:

Section I. Each party to any civil suit instituted in the District Court or any Magistrate court of the Canal Zone shall be responsible for the costs incurred by him in such suit, and the marshal, constable or other officer, authorized to execute any process in such cases, shall not execute the same unless the fees allowed by law for the service of such process shall be paid in advance by the party seeking such process, unless such party to the suit is entitled to prosecute the same in forma pauperis, as hereinafter provided.

Section II. The plaintiff in every civil case in the District Court shall deposit

with the clerk thereof a docket fee of ten dollars in cash and every plaintiff instituting a suit in the Magistrate courts shall deposit a docket fee in said court of five dollars; and the suit shall not be filed by the clerk or the magistrate unless the said docket fee is paid in the manner herein provided. The monies to be deposited shall be applied

to the payment of costs as they accrue.

Section III. Any party to a civil case in the District Court, who demands a trial by jury, shall accompany said demand with a deposit of ten dollars as a jury fee; and unless such deposit is made, the case shall be tried without the intervention of a

Section IV. The plaintiff in any civil suit or proceedings in the District Court or in either of the Magistrate courts may be ruled to give security for the costs upon motion of the opposing party or of any officer of the court interested in the costs accruing in said suit; and it shall be the duty of the court to require the plaintiff to give such security for costs within a reasonable time thereafter and not later than ten days after the motion is presented to the court; and if the plaintiff shall fail to comply with the order of the court within the time prescribed by the court or judge thereof, the suit shall be dismissed.

Section V. A new or additional undertaking may be ordered, within such time as the court or judge may prescribe, upon proof that the original undertaking is insufficient security, and failure on the part of the plaintiff to comply with the order of the court, or judge, within the time prescribed, shall cause the dismissal of the suit.

The security for costs required by this section may consist of a money deposit, bond of a surety company, or cost bond with two or more good and sufficient sureties; the form of such security to be determined by the judge or magistrate of the court before whom the proceedings are pending. If personal security is furnished, the sureties must be residents of the Canal Zone, and no officer of the court or attorney practicing before the court shall be accepted as surety.

Section VI. All bonds given as security for costs shall authorize judgment against all of the obligors of the said bonds, jointly and severally, for such costs, to be entered

in the final judgment of the case or special proceedings.

Section VII. Any citizen of the United States, entitled to commence any suit or action in any court in the Canal Zone, may commence and prosecute or defend to conclusion any such suit or action, without being required to prepay fees or costs or give security therefor, before or after bringing such suit or action, upon filing in the said court a statement, under oath, in writing, that because of his poverty he is unable to pay the costs of said suit or action, or to give security for same, and that he believes that he is entitled to the redress he seeks by such suit or action, and setting forth the nature of the said cause of action.

The opposing party in the suit, the clerk of the District Court or his assistant, or the magistrate, as the case may be, may contest the inability of the party to pay costs or

his inability to furnish security for same; and the contest shall be heard at such time

as the court or magistrate may determine.

If no contest is made upon the affidavit, or if the same is admitted by the court or magistrate after the contest, it shall be the duty of the officers of the court thereafter to issue and serve all processes and perform all duties on behalf of such party as in other cases.

Section VIII. No security for costs shall be required of the United States, The Panama Canal, or any of its dependencies or from the public administrator of The

Panama Canal.

Section IX. The provisions of this order, relating to security for costs, shall apply to an intervenor; and shall also apply to a defendant who seeks a judgment against the plaintiff on a counterclaim, after the defendant shall have discontinued his suit

Section X. When the costs are secured by the provisions of an attachment or other bond, filed by the party required to give satisfactory security for costs, no further

security shall be required.

Section XI. This order shall apply to pending cases in the District Court and the

Magistrate courts.

Section XII. Costs shall ordinarily be allowed to the prevailing party as a matter of course, but the court shall have power for special reasons to adjudge that either party shall pay the costs of an action, or that the same be divided as may be equitable

Section XIII. The Executive Order of August 14, 1914, "To Require Security for Costs in Civil Cases," and all other laws, orders, and decrees, or parts thereof, in conflict with this order, are hereby repealed.

Section XIV. This order shall take effect thirty days from this date.

WOODROW WILSON

THE WHITE HOUSE, January 9, 1920.

[No. 3213.1

(Published as Panama Canal circular 601-103.)

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286. Age limits do not apply to persons entitled to preference because of military or naval service:

Assistant director of educational work, Public Health Service (male and female); Class A, \$3,000 to \$4,000 a year; Class B, \$2,800 to \$3,600 a year; Class C, \$1,800 to \$2,400 a year; February 24, 1920; age, withir reasonable age limits.*

Translator (male and female); \$1,400 to \$1,800 a year; March 3,1920; form 1312; age, 25 years and

Examiner, Interstate Commerce Commission (male and female); \$3,000 to \$5,000 a year; March Examiner, Interstate Commerce Commission (male and female); \$3,000 to \$5,000 a year; March 3-4, 1920; form 1312; age 25 years and over.

Special assistant in home economics education (male and female); \$2,500 a year; March 2, 1920, form 1312; age, 25 years but not 50 years.*

Manual training teacher (male and female); \$900 to \$1,000 a year; February 18, 1920; No. 73; form 1312; age, 21 years but not 50 years.

Pyrotechnic engineer (male and female); Grade 1, \$2,400 a year; Grade 2, \$3,600 a year; February 17, 1920; No. 72; form 1312; age, 21 years and over.*

Map printer (male and female); \$1,320 a year; February 17, 1920; No. 66, form 1800; age, 24 years or over.*

Lithographic pressman (male and female); \$1,800 a year; February 17, 1920; No. 66; form 1800; age, 20 years or over.*

age, 20 years or over.*

Research chemist (male and female); \$2,200 to \$2,500 a year; February 10, 1920; No. 61; form 1312; age, 25 years but not 45 years.*

Library assistant (male and female); \$1,200 a year; February 18, 1920; No. 64; form 1312; age,

Library assistant (male and female); \$1,200 a year; February 18, 1920; No. 64; form 1512; age, 18 years or over.

Senior instructor in telephony, consulting engineer (male and female); \$3,600 a year; February 10, 1920; No. 63; form 1312; age, 25 years and over.*

Senior instructor in telegraphy, consulting engineer (male and female); \$3,600 a year; February 10, 1920; No. 63; form 1312; age, 25 years and over.*

Foreman, 14,000-ton press for armor and large caliber guns (male and female); \$11.84 to \$13.28 a day; February 10, 1920; No. 62; form 1371; age, within reasonable age limits.*

Foreman heat treatment of small guns (male and female); \$8 a day; February 10, 1920; No. 62; form 1371; age, within reasonable age limits.*

form 1371; age, within reasonable age limits.* Fire-control instrument expert (male and female); \$2,500 to \$3,000 a year; March 2, 1920; No.

Price-Collina Instrument expert (lane and core.*

Physician (male and female); Panama Canal Service; \$200 a month; February 18, 1920, and March 17, 1920; No. 15-amended; form 1312; age, 22 years but not 31 years.

Electrical instrument maker (male and female); \$1,500 a year; February 24, 1920; No. 81; form 1312; age, 25 years or over.*

Aeronautical draftsman (male and female); chargeman, \$10 to \$12 a day; draftsman, Grade A \$8 to \$9.60 a day; No. 318-amended; form 1312; age, 18 years or over.† Draftsman Grade B, \$6 to \$7.20 a day; Grade C, \$5.20 a day; No. 318-amended; form 1312; age, 18 years or over.† Field and laboratory aid in plant pathology (male and female); \$720 to \$1,080 a year; No. 67; form 1312; February 18, 1920; age, 18 years but not 30 years.

Assistant in teacher placement (male and female); \$1,500 a year; February 24, 1920; No. 82. form 2118; age, 20 years or over.*

tNonassembled. Applications will be received at any time until further notice

### Deceased Employees.

The estate of the following deceased employee of The Panania Canal is now in process of settlement, and any claims against this estate, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. This name will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death
Charles Young	69745	Jamaica	Panama	Miraflores Locks	January 14, 1920

### Sale of Building No. 5000, Cristobal.

Sale of Building No. 5000, Cristobal.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10.30 a. m., February 6, and then opened, for the purchase of building No. 5000, on the Folks River Road. Cristobal. This is a 2-story building and contains 20 rooms. The successful bidder will have to remove the building not later than February 15, 1920.

Proposals must be accompanied by postal money order, or certified check on a bank acceptable to The Panama Canal, made payable to the order of the Collector, 1 he Panama Canal, in an amount not less than 20 per cent of the amount bid. Award will be made upon payment of the full amount bid, and the 20 per cent submitted with the bid will be held as a guarantee that the removal will be performed not later than February 15. For further information call at the office of the District Quartermaster, Cristobal, between the hours of 8 and 10 a. m.

The Panama Canal reserves the right to reject any or all bids.

any or all bids.

### Sale of Gasoline Launch.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Palboa Heights, up to 10.30 a. m., March 2, and then opened, for the purchase of the gasoline launch Pioneer. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

### Administrator's Sale.

The Administrator of Estates, room 301, Administration Building, Balboa Heights, will accept written bids up to 2 p. m. Saturday, February 7, 1920, for the purchase of a wooden tool box and a lot of electrician's tools belonging to the estate a lot of electrician's tools belonging to the estate of Frank R. Jay, deceased American employee. Itemized lists of the articles offered for sale will be found posted at Canal Zone post offices and clubhouses, and persons desiring to examine the property may do so on business days, until 4.30 p. m., January 24, at room 203, Terminal Building, Cristobal, and after that date at the Administrator's office, Balboa Heights. Bids may embrace the entire collection, or be limited to single Items. They should be submitted to the Administrator of Estates in sealed envelopes, marked Items. They should be submitted to the Administrator of Estates in sealed envelopes, marked "Bid on effects of Frank R. Jay, deceased." The Administrator reserves the right to reject any or all bids, and no advance deposit of money is required.

### Annual Rainfall for Three Vear

		NCHES.			1	O.
Stations	1919	1918	1917	Station average	Years of record.	Raigy days, 1919
Pacific section— Balboa Balboa Heights. Miraflores Pedro Miguel Rio Grande Central section— Culebra	57.59 61.15 58.12 63.20 76.87	54.82 64.22 66.09 74.97	68.80 84.57 89.64 94.72 88.72	79.60 80.06 48.26 87.05	22 11 12 15 29	164 173 169 173 185
Camacho Empire Gamboa Juan Mina Alhajuela	74.75 69.63 62.02 88.80 81.51	82.89 75.47 82.13 83.25	103.94 103.39	80.46 90.81 92.99 100.53	15 37 9 20	198 208 203 172 225
Vigia Frijoles. Trinidad Monte Lirio. Allantic section—	79.05	91.20 73.94	107.82 111.16	102.72 100.15 105.17 121.13	8 12	209 252 253
Gatua Brazos Brook Colon	100.39	127.12	135.27	122 .40 132 .53 128 .48	13	256 240 249

### Additions to Commissary Stock.

Grocery Section. \$1.15

Sauce: .39

Cable Address of The Panama Canal.
The cable address of The Panama Canal, on
the Isthmus, is Pancanal, Panama;" in the
United States, "Pancanal, Washington."
Mail for ships passing through the Canal or
touching at either of the terminal ports should
be addressed to "Cristobal, Canal Zone."

Postal Address of The Panama Canal. The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

^{*}Nonassembled. Date given for nonassembled examinations is the last day for filing applications and they must be in the hands of the Commission at Washington prior to the hour of closing business or that date.

### Schedule of Official Jitney Service.

Following is the schedule of the official jitney plying between Balboa shops and the Ancon police station, carrying employees in the conduct of official business, upon presentation of passes issued by the Chief Quartermasterr or of the "special pass" issued by the Governor:

### FROM ANCON POLICE STATION TO BALBOA SHOPS.

Balboa Commissary	<ul> <li>Leave on the hour and half hour.</li> <li>Leave 7 minutes and 37 minutes after the hour.</li> <li>Leave 10 minutes and 40 minutes after the hour.</li> <li>Arrive 15 minutes and 45 minutes after the hour.</li> </ul>
FROM BALBOA SHOP	PS TO ANCON POLICE STATION.
Port Captain's Office	. Leave 15 minutes and 45 minutes after the hour. Leave 18 minutes and 45 minutes after the hour. Leave 20 minutes and 50 minutes after the hour. Leave 25 minutes and 55 minutes after the hour. Arrive on the hour and half hour.

### Hotel Aspinwall Launch Schedule.

Following is the schedule of launch service maintained by the Supply Department between Balboa and the Hotel Aspinwall on Taboga Island:

D	aily

Leave Port Captain's boat landing, near dock 19	10.00 a. m.
Leave Tahoga	8.00 a. m.
Sundays and holidays.	
Leave dock 19, Balboa	10.00 a. m.
Leave Taboga returning	11.30 a. m.
Leave dock 19, Balboa	4.30 p. m.
Leave Taboga returning	6.00 p. m.
Saturdays and days preceding holidays.	
Leave dock 19, Balboa	10.00 a. m.
Leave Taboga returning	11,30 a. m.
Leave dock 19. Balboa	6.00 p. m.

Returning from Taboga the following day..... Fares (each way)—Employees, 35 cents; nonemployees, 60 cents; children of employees over 6 and under 12 years old, 25 cents; of nonemployees, 40 cents.

8.00 a. m.

Hotel patrons desiring to send trunks should arrange to have them delivered at the launch landing by 9.30 a.m., addressed to themselves, care of Hotel Aspinwall. Freight will be transported on the a.m. trip on Mondays, Thursdays, and Saturdays.

For further information address Manager, Hotel Aspinwall, Taboga, via Balboa, C. Z.

### COMMISSARY NOTES.

### Return Your Milk Bottles.

Considerable inconvenience is caused through the failure of commissary customers to return promptly their empty milk bottles. At times it has become actually necessary to take hurried measures to avoid a shortage. No difficulty whatever would be experienced if patrons would return these bottles regularly instead of permitting them to accumulate, and the cooperation of all concerned to this end is requested by the commissary management.

### Books.

Books received:

"Theodore Roosevelt's Letters to His Children," edited by Joseph Bucklin Bishop. "Mrs. Marden," by Robert Hichens; "From Mud to Mufti," by Bruce Bairnsfather; "Simonetta," by Edwin Lefevre; "On the Makeloa Mat," by Jack London; "Dreams: What They Are and What They Mean," by J. W. Wickwar; "All Roads Lead to Calvary," by Jerome K. Jerome; "Eminent Victorians," by Lytton Strachey; "Bringing up Father," by George MacManus; "The Four Horsemen of the Apocalypse," by Blasco Ibañez; "Waifs and Strays," by O. Henry; "Complete Verse," by Rud-yard Kipling; "The Beasts of Tarzan," by Edgar Rice Burroughs; "Poems," by Alan Seeger; "Shorty McCabe Gets the Hail," by Sewell Ford; "Raemaker's Cartoon History of the War;" "Broom Fairies and other Stories," by Ethel M. Gate; "Michael Forth," by Mary Johnston.

## THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

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No. 26.

Volume XIII.

Balboa Heights, C. Z., February 11, 1920.

The Ship of Greatest Gross Tonnage Through the Canal.

The United States Army transport America which passed through the Canal on February 6, is the second longest ship and the ship of the greatest gross tonnage to have used the Canal to date. Her length of 668 feet 9 inches is 16 feet 7 inches less than that of the Mount Vernon, which made the transit on October 29, 1919, but her beam of 74 feet 4 inches exceeds by 2 inches that of the Mount Vernon and her registered gross tonnage is 22,622, as compared with the 18,372 of the Mount Vernon, and the 20,602 tons of the Minnesota, which had previously held the record for gross tonnage. In beam the America is exceeded by a number of warships which have made the transit. Her draft was 32 feet 9 inches.

The America is on the way from New York to Vladivostok, via San Francisco, carrying 6 through passengers. She discharged 80 tons of cargo at Balboa and cleared on February 7 with 3,793 tonsremaining on board.

### Visit of Portion of Atlantic Fleet.

A portion of the Atlantic Fleet of the United States Navy, including 16 destroyers, with 1 squadron flagship and 3 flotilla flagships, arrived at Cristobal in the morning of February 11 from Guantanamo, for a stay of several days in Canal waters.

### Seven Nitrate Ships in a Day.

Seven ships carrying nitrate arrived at Balboa on February 8. They carried an aggregate of 21,869 tons of cargo, of which 3,410 tons were bound for Madeira and the remainder to southern and middle Atlantic ports of the United States.

The first of the ships arrived at 12.30 in the morning, the next at 2.30 and the hours of arrival of the others were 7.00, 8.20 and 11.40 a. m. and 1.10 and 3.56 p. m.

### Fire on the "Marne" Extinguished and Work of Raising Begun.

The fire which broke out in the cargo of the steamship Marne at Cristobal on January 24, and made it advisable to sink the ship in the outer harbor in an effort to extinguish the burning oil, was finally put out on February 5 by smothering with steam led through hose from tugs. Preliminary work for raising her had already been started. Three divers have succeeded in plugging all of the holes in the hull of the ship made by shots fired from 3-inch guns of submarines in order to sink the Marne, and work is now in progress on the construction of bulkheads to enable the pumping out of the water in the hold. As the ship sank parts of the superstructure remained above water, and it was in the section amidships that the fire continued to burn; but the deck between the bridge and the forecastle head, and from the

amidships superstructure to the poop, is under water. Bulkheads of 2-inch planks are being built on both sides of these sections, and when they are made watertight it is expected that it will be a relatively simple matter to pump out the ship and make her float.

### Departure of the "Yakumo."

The Japanese cruiser Yakumo, one of the three training ships for midshipmen of the Japanese Naval Academy, cleared for San Diego in the afternoon of February 10, after a 6-day stay at Balboa.

During the visit the officers and men were provided by the Government with opportunity to visit the points of interest in the Canal Zone, and several notable receptions were given for the officers and midshipmen.

The two other training ships are on cruises to France and Great

Britain.

### Visit of Swedish Cruiser.

The Swedish cruiser Fylgia sailed on February 9 for Habana, thence to Havre, after a stay of 4 days at Cristobal, where she arrived on February 5 from Kingston. She is cruising with 20 cadets, who are training for service as officers in the Swedish Navy. Courtesies of transportation and sight-seeing were extended to officers and crew.

### Line between New Orleans and West Coast.

The Hodge Ship Company, Inc., of New Orleans, has begun the operation of a steamship line between New Orleans and Pacific ports of Colombia and Ecuador, including Buenaventura, Tumaco, Esmeraldas, Bahia, and Guayaquil. The steamship Nika, passing through the Canal southbound on February 1 was the first of the 4 or 5 ships which the company expects to employ in this service.

### Revised Travel Regulations.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., January 30, 1920.

To all concerned—The following circular, which was issued on July 19, 1919, is still in effect and must be complied with:

### "REVISED TRAVEL REGULATIONS.

"1. Effective at once, travel regulations contained in my circular, 'Information and Instructions,' and amendments thereto, regarding entry into and departure from the Canal Zone, of November 1, 1918, excepting as applied to hostile aliens, are rescinded.

"2. Hostile aliens shall procure special permits to depart by applica-

tion at the police stations at Balboa or Cristobal.

"3. Citizens of the United States and other persons owing allegiance to the United States, including employees of The Panama Canal and Panama Railroad, traveling between the continental United States and the Canal Zone, or between the insular possessions of the United States and the Canal Zone, shall not be required to bear passports, identity cards, or permits.

"4. Co-belligerents and neutrals may make the same journeys on passports issued, renewed, or visaed by the respective government authorities within 60 days of the date of departure, without permits."

> CHESTER HARDING, Governor.

### Quarantine Against Influenza.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., February 5, 1920.

CIRCULAR No. 626-3.

The Quarantine Rules and Regulations of the Canal Zone and the cities of Colon and Panama, are hereby extended to include influenza and similar diseases as maritime quarantinable diseases, and the Chief Quarantine Officer is authorized to promulgate rules for the exclusion of such diseases.

CHESTER HARDING, Governor.

### The Average Ship Through the Canal.

During the first half of the current fiscal year, the average length of the 1,152 commercial ships making the transit of the Canal was 342 feet. The average beam was 48 feet and the average draft in salt water was 21 feet. The average net tonnage was 3,368 and the average cargo 3,583 tons.

Figures for the period by months are contained in the following tables:

Date	No. of	Leng	th	Bear	n	Draft	
Date	ships	Aggregate	Average	Aggiegate	Average	Aggregate	Average
July, 1919 August, 1919 September, 1919 October, 1919 November, 1919 December, 1919	188 170 196 180	53,193 62,357 58,673 66,798 61,417 91,954	336 331 345 340 341 354	7,446 8,833 8,191 9,410 8,467 12,651	47 47 48 48 47 49	3,409 4,061 3,719 4 204 3,741 5,466	21 21 21 21 21 21 21
Total	1,152	394,392		54,998		24,600	
Average for 6 months			342		48	l	21

Ships   Aggregate   Average   Aggregate   Aggregate	Date.		P. C. ne	et tons	Cargo tons	
August, 1919         189         586,111         3,117         715,724           September, 1919         170         586,186         3,448         638,270           October, 1919         196         670,100         3,419         705,881           November, 1919         180         597,148         3,317         575,480           December 1919         260         927,726         3,568         924,479	2/6/04	ships	Aggregate	Average	Aggregate	Average
Total 1.152 3.880.889 4.128.006	August, 1919 September, 1919 October, 1919 November, 1919	189 170 196 180	586,111 586,186 670,100 597,148	3,117 3,448 3,419 3,317	715,724 638,270 705,881 575,480	3,596 3,807 3,754 3,601 3,197 3,555
Average for 6 months 3,368						

### Notice to Mariners.—U. S. Naval Radio Station Puerto Obaldia in Operation.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., January 12, 1920.

CIRCULAR No. 643-69 (Corrected):

The U. S. Naval Radio Station, Puerto Obaldia, R. P., is now in operation. The station is located at Puerto Obaldia, near the eastern extremity of the Atlantic seacoast of the Republic of Panama; approximate position, latitude 8° 40' north, longitude 77° 22' west. The station call is NRK.
 Puerto Obaldia is operated by the U. S. Naval Communication Service and is

2. Puerto Obaldia is operated by the U.S. Navai Communication Service and is prepared to handle U.S. and Panaman Government despacehes free of charge. The station also handles commercial traffic at rates which may be obtained from the Naval

Radio Station, Balboa, C. Z.

3. The following daily schedule of watches will be maintained by Puerto Obaldia Radio; 6 to 8 a. m.; 12 noon to 2 p. m.; 6 to 8 p. m. All messages for this station will be handled via Balboa Radio on above schedules, and those received at Balboa at any time outside of schedule can not be transmitted until the following schedule.

at any time outside of schedule can not be transmitted until the following schedule.

4. Messages for Puerto Obaldia, or other U. S. Naval Radio Stations in the Republic of Panama, may be filed at any of the Panama Railroad or Panama National telegraph offices.

JAY J. MORROW, Acting Governor.

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight, February 7, 1920.

THROUGH THE CANAL-ATLANTIC TO PACIFIC.

Sanal ge	Net	2,542 1,739 2,459	904	,680 ,537 ,751	1,766 2,459 4,770	,583 ,747 386	4,501	1,718	1,595	622	3,975 4,471 6,373		478 650 1,866 4,782 1,742 1,982
Panama Cana Tonnage	Gross	3,447 2,553 3,739	6,570 4 2,383 1			2,518 2,828 1,514		2,724					2,354 1,128 3,999 2,414 6,512 2,895 1
Tons			7,200	583	3,349	1,991			3,793		1,719	1	(f) 8403 (g) 8403 (g) 7,753 7,753 7,0734 2,868
Cargo		Iron rails, cement General General	Coal, shells	General General	Coke	Coke and coal	General	Crude oil	Miscellaneous	General	General		Cattle, eggs Nitrate Ties Flour Flour Flour General
F.O.F.	5	Mejillones Guayaquil San Franciseo.	San Diego Honolulu Taltal	Caleta Buena. Valparaiso	Antofagasta Valparajso San Pedro	Antofagasta Guayacan	Valparaiso	Caleta Colosa.	San Francisco. San Francisco.	Balboa	Valparaiso Yokohama		Mindi, C. Z New York Wilmington Philadelphia New York New York New York
Prom			Norfolk Hongkong	202		Norfolk. Baltimore.			New York	Coco Solo	Antwerp. New York New Orleans Raltimore		Corinto. Buenaventura. Junin. Astoria. Seattle. Sattle. San Francisco. San Francisco.
Salt	draf	23.6 18.6 22.3	24.7	24.6 22.6 22.0	21.0 21.0 23.9	24.0	23.0	21.0	30.9		20.02	TIC.	15.0 16.0 22.7 22.7 25.0 25.0 25.0 17.0
Beam		44.0 46.0 38.6	53.0 43.0		43.6 47.2 54.2	433.7		43.7	74.3	33.1	54.0	ATLAN	47.6 34.1 48.0 48.0 54.2 46.2 46.2 53.0
Length Beam		322.0 267.3 345.0	386.0 402.6 253.5	253.0 350.0 360.6	251.0 320.3 409.8	251.0 253.0 360.0	425 0	253.0	669.0 439.0	175.0	360.2 407.0 409.0	CIFIC TO	288.0 225.2 338.1 275.2 409.8 262.5 262.5 289.1
Line		Jae. Engers Steamship Corp Hodre Shipping Co Pacific Mail Steamship Co	United States Navy	United States Shipping Board South American Steamship Line. Pacific Steam Navigation Co	Johs. Lindvig. C. K. Hansen. United States Shipping Board	United States Shipping Board United States Shipping Board Pernyian Steamship Line	Portug rese Government. United States Shipping Board	United States Shipping Board	Facilie Mail Steamship Co United States Army Standard Oil Co.	United States Navy	Natsuda Steamsnip Co. W. R. Grace & Co. Mitsul & Co.	THROUGH THE CANAL—PACIFIC TO ATLANTIC.	Panama Railroad Cattlo Industry Federal Line H. M. Wrengell & Co. United States Shipping Board. J. E. Chilberg. United States Shipping Board. United States Shipping Board. Packet Shipping Board. Packet Shipping Board. Packet Shipping Board. Packet Shipping Board.
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- '- e	Day	2 3.00 2 20.50 2 21 13	3 18.50 21.33 14.35	6 10.35 4 11.14 3 21.51		6 16.36	5 17.25	91.12	7 11.04	6 21.47	7 16.48 7 17.25 7 21.25	(d) December.	3 9.00 1 15.20 1 122.10 2 11.15 2 17.16 2 15.50 4 6.25
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	пон	1-30 6.43 1-26 14.53	9.00	1.28 7.05 0.45	3.58	6.23	7.55	9.45	22.23 17.43 23.42	1.25	6 18.35 x 3.45 x 2.45	Transport.	11.2.30 11.45 11.45 12.10 12.10 12.30 115.30 115.30
Arrived at port	Day	1-30	1-27	1-251 1-281 2 2		3 1 4 1 1-20	100	4 ro g	1-25 TO TO		9971	(b) Tr	
Ship		Helder Nika City of Para	Vulcan (a) Yosemite Lake Maurepas		Troja Amalienborg Tripp.	Lake Catheoon. Coutolene	Goa West Kasson	Cottonwood	America (b)	R-24, 23, 27(c) Jamaica	Santa Luisa Horaisan Maru. Felbook		Caribbean Fort Gaines Unita Balliett West Islip West Islip Nockum Point Judith

(e) Coffee, and empty gas cylinders. (f) Cattle, 200 head; eggs, 13 cases. (g) 1,312,367 feet, B. M.

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Mouro Jupiter Sherman Sherman Sharnaici Januaici Januaici Fairmont Arawa Arawau Felix Taussig. StephenR Jones	· <del>·····</del> :

(h) Launch. (f) Gunboat. (j) Tug. (k) Did not complete transit. (l) For orders. (m) Coffee, ivory nuts, and platinum. (n) 10,020 of 1,000 kilos.

PORT OF CRISTOBALS

*DEPARTURES.	For.	Bluefields.  New York.  New York.  New York.  New York and wayports.  Tampico.  New Orleans.  New York and Jamales.  New York and Jamales.  New York via Haiti.
	Line.	United States Shipping Board Barana Railroad Steamship Line. Namana Railroad Steamship Line. Natrancho Navigation Co. Panama Railroad Steamship Line. Natrana Railroad Steamship Line. Natrana Railroad Steamship Line. Natrana Fruit Co. Trans. Railroad Steamship Line. Natrana Railroad Steamship Line. Co. United Fruit Co. Co. Trans. Railroad Steamship Line. Co. Co. Trans. Co. Trans. Railroad Steamship Line. Co. Co. United Fruit Co.
	Vessel.	fili heny III ta
	Date.	Feb. 1. Feb. 1. Feb. 4. Feb. 5. Feb. 5. Feb. 5. Feb. 6.
		abana. Habana. Kingston. Iaiti.
	From.	Tampico. New York, via H New York, via H New York and F Tampico. Kingaton. Cartagena. Havre. High seas. New York and I Now York and I Norfolk.
*ARRIVALS.	Line. From.	Pan-American Pet. & Transp. Co.   Tampico.     Vanided Fruit Co.   New York, via H.     United Fruit Co.   New York and I.     United Fruit Co.   New York and I.     United Fruit Co.   New York and I.     United Fruit Co.   Tampico.     Swedish Government.   Tampico.     Cartagena.   Cartagena.     French Steamship Line.   Hayre.     Panama Railread Steamship Line   New York and I.     United States Navy.   Norfolk.     United States Navy.   Norfolk.     United States Navy.   Norfolk.     Norfolk.   Norfolk.   Norfolk.     Norfolk.   Norfolk.   Norfolk.     Norfolk.   Norfolk.   Norfolk.     Norfolk.   Norfolk.   Norfolk.   Norfolk.     Norfolk.   Norfolk.   Norfolk.     Norfolk.   Norfolk.   Norfolk.   Norfolk.     Norfolk.   Norfolk.   Norfolk.   Norfolk.     Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.     Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfolk.   Norfol
*ARRIVALS.	Vessel. Line. From.	Ed. L. Dobeny III.         Pan-American Pet. & Transp. Co.         Tampico.         Feb. I.         Craigsmen United Fruit Co.           Parismina         United Fruit Co.         New York, via Habana.         Feb. I.         Upsess.           Varillo.         United Fruit Co.         New Orleans and Habana.         Feb. 4.         Astmasho.           Varillo.         United Fruit Co.         New Orleans and Habana.         Feb. 4.         Astmasho.           No. S. Rhoems         United States Shipping Board         Tampico.         Feb. 4.         Astmasho.           Falfast O.         Gratagea.         Feb. 4.         Ancon.           Fapara         French Stateship Line.         Feb. 4.         Acaras.           Paran         Ling Fourth. Co.         Havro.         Feb. 5.         Feb. 5.           Paran         Ling Fourth. Do.         Havro.         Feb. 5.         Feb. 5.         Statta Mariama Mariama Railroad Steamship Line.           Gen. W. C. Gorgas.         United States Navy.         New York and Haiti.         Feb. 6.         Carrillo.

(o) Cruiser. (p) And Barge 11.

### Portuguese Government Ship Through the Canal.

The steamship Goa, owned by the Portuguese Government and operated by the Transportes Maritimes de Estado, passed through the Canal on February 5, on her way from New York to Valparaiso by way of Mollendo and Callao. She was carrying 4,000 tons of general cargo in tramp service.

### Training Ship for the City of Philadelphia.

The United States Navy tug *Sonoma* arrived from San Francisco on February 3 on her way to Philadelphia, towing the *Annapolis*, a ship without power, classed as a gunboat, to be used by the city of Philadelphia as a training ship for the merchant marine. The tug and tow underwent some minor repairs at Cristobal and cleared on February 9.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending February 7, 1920.

				Cargo—			
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.		
Ulysees Achilles City of Para Cote Blanche Palena Caribbean Point Judith Jamaica Ancon Lake Catheoon Atenas E. L. Doheny III Huallago Parismina Carrillo. W. S. Rheem Banta Marta Laura C. Hall	Panama Railroad Steamship Line. Panama Railroad Steamship Line. Pacific Mail Steamship Line. Pacific Mail Steamship Line. Pacific Mail Steamship Line. Pacific Steam hp Co. Panama Railroad Cattle Industry. Pacific Mail Steamship Line. Pacific Steam Navigation Co. Panama Railroad Steamship Line. United States Shipping Board. United Fruit Co. PanAmer. Pet. & Trans. Co. Peruvian Line United Fruit Co. United Fruit Co. United States Shipping Board. United States Shipping Board. United Pruit Co. Pacific Metals Corporation.		February 1. February 2. February 3. February 3. February 3. February 4. February 4. February 4. February 4. February 5. February 5. February 5. February 5.	400 255 798 2,826 5 11,430	Laded.  Tons. 5,216 (*) 2,118 (*) 599 3 (*) 1,078½ 10,511 (*) 54 (*) 845½ 325 242		
Perou Mantaro Manavi San Juan Panama Teviot	French Steamship Co. Peruvian Steamship Co. Peruvian Steam hip Line. Pacific Steam Navigation Co. Pacific Mail Steam bip Line. Panama Railroad Steamship Line. Royal Mail Steam Packet Co. Panama Railroad Steamship Line. Panama Railroad Cattle Industry Panama Railroad Cattle Industry Panama Railroad Cattle Industry Panama Railroad Steamship Line. Pacific Steam Navigation Co.	February 5 February 5 February 5 February 6 February 6 February 7 February 7		3,322½ 651 50 3,458 208	2,002		

^{*} No cargo laded.

# Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending February 7, 1920.

				Cargo-			
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.		
Georgina Rolph. Point Judith City of Para Lady Sybil. Laura C. Hall Clause us. Mana vi. America. Chile.	Rolph Navigation Co Pacific Mail Steamship Co Pacific Mail Steamship Co International Petroleum Co. Pacific Metals Corporation Green Star Line Pacific Steam Navigation Co. United States Army Pacific Steam Navigation Co	(*) February 1 February 2 February 4 February 4 February 5 February 6 February 7	February 1 February 2 February 2 February 6 February 5 February 5 February 7 February 7	83	Tons. 71 45 100		

^{*} Shown in last week's report.

### Ships for West Coast Service.

The following is quoted from the *Digest of Reconstruction News* issued by the Council of National Defense, January 22, 1920:

"The Shipping Board will place under management of existing steamship company several vessels to handle freight and passenger service between New York and cities of west coast, including Callao, Arica, Iquique, and Valparaiso on 2-week schedule."

### Tug "Dreadnaught" Transits the Canal.

The tug *Dreadnaught* of the United States Navy passed through the Canal on February 9, towing target raft *No. 51* from Norfolk to San Diego direct.

### Passage of the "President Grant."

The United States Army transport *President Grant* arrived at 7.13 on the morning of February 10 on the way from Hoboken to Vladivostok by way of San Francisco, Kobe, and Yokohama, carrying 3,539 tons of cargo, consisting of steel, copper, and supplies.

The *President Grant* is a ship of 18,072 gross tons, registry measurement, and her length between perpendiculars is 598 feet 11 inches. Her beam is 68 feet 1 inch, and her draft in the fresh water of the Canal

was 32 feet 8 inches.

The President Grant started through the Canal at 7.50 a. m., cleared Gatun Locks at 10.05 a. m., reached Pedro Miguel at 1.10 p. m., Balboa at 6.09 p. m., and cleared immediately for sea. Her time in transit through the Canal was 10 hours, 19 minutes, and her total time in Canal waters 10 hours, 56 minutes.

### Suspension of Crossing at Pedro Miguel Locks.

On account of the overhaul of Pedro Miguel Locks individuals or pack trains will not be able to cross the Canal at this point for a period of about 3 months. Crossings can be made at Miraflores and at the Paraiso pontoon bridge.

### Sunday Dinners at Ancon Restaurant.

The Canal restaurant at Ancon began on February 1 serving a Sunday evening table d'hote dinner of six courses for \$1, and will make this a feature each Sunday, in addition to the usual service, which, in this as in the other Canal restaurants, is a la carte. The Tivoli and Washington Hotels serve table d'hote luncheons and dinners, and a la carte breakfasts.

### Physical Examination of School Children.

A report of the annual physical examination of children in the white schools made in October and November, 1919, follows:

white schools made in october and november, 1919,	101	10		
Number of physical examinations made				1.
Number found needing treatment			 	
Number with other defects than those of teeth only			 	
Number with defects of teeth as only defect			 	
Defects found:				
Defective vision			 	
Defective hearing			 	
Defective nasal breathing.				
Hypertrophied tonsils				
Pulmonary diseases			 	
Cardiac disease			 	
Chorea or other nervous disorders				
Orthopedic defects				
Malnutrition			 	
Miscellaneous defects				
Number with defective teeth				
Number reported as treated			 	

### Standard Stock Catalogue.

THE PANAMA CANAL, EXECUTIVE OFFICE, Balboa Heights, C. Z., January 30, 1920.

HEADS OF DEPARTMENTS AND DIVISIONS:

1. At my direction, and in accordance with my circular of September 16, 1918, the 1. At my direction, and in accordance with my circular of september 10, 1910, the Supply Department has, with assistance of representatives of the various divisions of The Panama Canal and Panama Railroad Company, compiled a catalogue of supplies on hand in Supply Department storehouses, which will be retained for Panama Canal and Panama Railroad Company use. This catalogue will hereafter be referred to as the "Standard Stock Catalogue." All material on hand not included in this catalogue will, with few exceptions, be included in a separate surplus and obsolete

catalogue, and efforts made to dispose of same.

2. The Standard Stock Catalogue was originated with the end in view of establishing the identity of all material on hand in storehouses, in so far as future stock protection of same was concerned; to provide, for the information of and guidance of departments and divisions, a catalogue of standard supplies which would be carried in stock in the future; to reduce investment in stock to the lowest possible figure, and to reduce the number of items previously carried in stock, in order that sufficient funds would be available for the purchase of standard material instead of large amounts being tied up in slow-moving stock, for which in many cases satisfactory substitutes could be furnished from standard stock; the use of such substitutes, even if at a higher cost than desired material, being considered advisable for obvious reasons.

3. Each item incorporated in the Standard Stock Catalogue is prefixed by one of the following symbols, indicating its status as shown below, in so far as future stock

protection of same is concerned.

X—General stock material, requirements of which will be protected by the Gen-

eral Storekeeper on the basis of past consumption.

%-General stock material, requirements of which will be protected by the General Storekeeper on the basis of maximum and minimum quantities established. *—Special stock material, to be reordered by the General Storekeeper as required. on the basis of estimates or special requests.

—Material not to be reordered after present stock is exhausted.
4. Your particular attention is invited to all items incorporated in the Standard Stock Catalogue prefixed by the symbol "*," representing material which will not be reordered when the present supply is exhausted, with request that you arrange to use the present stock of this material at the earliest possible date, in order to prevent possible loss from deterioration in stock or otherwise.

5. Effective at once, the following instructions will govern origination of requisitions for United States purchase of Panama Canal and Panama Railroad Company

material requirements.

(a) Requisitions for standard stock material included in the Standard Stock Catalogue will be originated in the office of the General Storekeeper, on form No. 906, and forwarded to the Chief Quartermaster for handling, except as noted below under sections 1, 2, and 3, of sub-paragraph (a).

(1) Standard stock electrical material will be ordered by the Electrical Division on form No. 6674, and forwarded to the Chief Quartermaster for handling, until such time as arrangements are made by the Supply Department to protect direct the re-

quirements of this class of supplies.

(2) Dredge spares, stock protection of which has been handled by the Dredging Division in the past, will be ordered by the Dredging Division on form No. 6674, and forwarded to the Chief Quartermaster for handling, until such time as arrangements are made by the Supply Department to protect direct the requirements of this class of supplies.

(3) Special electrical material and lock spares, stock of which has in the past been protected by the Engineer of Maintenance, will be ordered by the Engineer of Maintenance, on form No. 6674, and forwarded to the Chief Quartermaster for handling, until such time as arrangements are made by the Supply Department to protect direct the requirements of this class of supplies.

(b) Stationery and printing plant supplies will be ordered by the Printer, Panama Canal Press, on form No. 6965-1, and submitted to the Chief Quartermaster for handling.

(c) Equipment or special material, not included in the Standard Stock Catalogue, required for special work, which, upon receipt, will be shipped direct to the work for which ordered, for installation or use, will be ordered on form No. 6674, which will be forwarded by the heads of departments and divisions to the Chief Quartermaster

for handling and my approval. In the event purchase of such material and equipment Is approved, same shall not be considered in so far as future stock protection is concerned, and will not be recorded.

6. Your particular attention is called to the fact that all material which in the future

will be stocked in Supply Department storehouses, will be ordered on requisitions originated by the General Storekeeper, except as provided for in sections 1, 2, and 3, of sub-paragraph (a) of a ove paragraph No. 5, and that only such material as is incorporated in the Standard Stock Catalogue will be stocked in the future.

7. Requests for additions to the Standard Stock Catalogue should only be made after careful investigation of the necessity for same, and the fact has been ascertained that the standards adopted are insufficient; consideration being given the fact that

every additional stock item represents increased investment in stock.

8. Requests for additions to the Standard Stock Catalogue will be made by heads of departments and divisions on form No. 6222, a stock of which will be maintained by the Printer, Panama Canal Press, and submitted to the General Storekeeper in triplicate, for action, on the third Wednesday of each month, by the Standard Stock Committee, which is hereby created and will be composed of the Engineer of Maintenance as Chairman, the General Storekeeper, and representatives of the divisions requesting additional stock standardization. After careful investigation, the Standard Stock Committee will submit form No. 6223 to me with recommendation, for final action. The General Storekeeper will advise interested division on form No. 6224, of action taken in connection with each request for additional stock standardization.

9. Heads of departments and divisions will designate competent material representatives, who will be subject to the call of the General Storekeeper, for the purpose

of revising stock standardization, when required.

10. After careful investigation, with the assistance of representatives of the various departments and divisions, the General Storekeeper is authorized, when necessary, to eliminate items included in the Standard Stock Catalogue from future stock protection, and to make necessary changes in symbols covering the various items, as necessity for same arises. The General Storekeeper will arrange periodically to furnish departments and divisions with revised sheets to the Standard Stock Catalogue indicating any changes that have been made in stock standardization covering material included thereon.

11. Other than standard stock material included in the Standard Stock Catalogue which is not required by departments and divisions, will be returned to stock at storehouses only in accordance with provisions of Auditor's Circular No. 196, dated April

21, 1919.

CHESTER HARDING, Governor

### Liquor Regulations.

THE PANAMA CANAL, HEALTH DEPARTMENT, BALBOA HEIGHTS, C. Z., January 31, 1920.

CIRCULAR No. 173

To all concerned—1. By virtue of the authority vested in me by Executive Order of January 7, 1920, entitled "Executive Order Establishing Regulations for the Canal Zone Relative to the Sale, Possession, and Disposition of Liquors for Sacramental, Scientific, Industrial, Pharmaceutical, and Medicinal Purposes," the following instructions are promulgated for the handling and use of liquors upon the Canal Zone:
2. Liquors for pharmaceutical, medicinal, industrial, or scientific purposes may be

imported upon official requisitions.

3. Liquors for sacramental purposes may be imported upon permit issued by the Chief Health Officer. Applications for such permits must be upon forms as sample hereto attached.

4. Liquors imported by the Health Department for pharmaceutical, medicinal, scientific and veterinary purposes, will be placed in the medical storehouse and issued

therefrom upon approved official requisitions.

5. Hospitals, dispensaries, and other units of the Health Department may obtain such liquors as necessary from the medical storehouse and will issue them upon prescriptions signed by physicians regularly employed by The Panama Canal.

6. All prescriptions for liquors will be kept on a separate file and will be subject to

inspection at any time. 7. Physicians employed by the Health Department of The Panama Canal, by the Army, Navy, or Public Health Service, and those holding a permit from the Chief Health Officer, are authorized to prescribe liquor for medicinal purposes upon forms as attached hereto.

(a) When such prescriptions are for liquors to be used in a hospital only one copy need be made, and it will be filed in the drug room. When the prescription is for liquor to be used outside of a hospital, the physician will place on file a copy of the prescription, the patient retaining the original as his authority to have the liquor in his

possession.

(b) When it is necessary to prescribe for individual patients liquor that must be obtained outside the Canal Zone, the physician will make out the prescription in duplicate and forward both copies to the Chief Health Officer. If approved for import it will be so indorsed by the Chief Health Officer, one copy will be returned to the physician who signed it for his file, and the other to the patient as his authority to import, use, and possess the liquor.

8. A record of all receipts and issues of liquors will be kept at the Medical Storehouse, and in the drug rooms or other units of the Health Department issuing liquors, with the necessary vouchers for all expenditures. A separate account will be kept for each kind or liquor used. The records will be ruled and kept in the form pro-

vided in sheet attached hereto.

9. At least once a month the accounts will be balanced and the quantities remaining on hand will be verified by the Storekeeper or a designated physician, and the facts noted over his signature. These accounts will be subject to inspection at any

time.

10. Liquor for industrial, veterinary, and scientific purposes may be brought upon the Canal Zone upon official requisition and placed in stock in Government storehouses. It will be issued therefrom upon approved official requisitions, for industrial, veterinary and scientific purposes. Sales may be made to individuals provided the storekeeper is convinced that the liquor is for the purposes mentioned in this paragraph.

(a) Records of receipts and issues will be kept at all storehouses and these accounts

will be subject to inspection at any time.

11. All liquors will be kept under lock and key.

Approved:

CHESTER HARDING,

Governor.

H. C. FISHER, Chief Health Officer.

BALBOA HEIGHTS, C. Z., January 31, 1920.

APPLICATION BY PHYSICIAN NOT EMPLOYED BY THE HEALTH DEPARTMENT OF THE PANAMA CANAL, THE ARMY, NAVY, OR PUBLIC HEALTH SERVICE OF THE

UNITED STATES FOR

PERMISSION TO PRESCRIBE LIQUOR TO PATIENTS, IN ACCORDANCE WITH EXECUTIVE ORDER OF JANUARY 7, 1920

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CHIEF HEALTH OFFICER,

Balboa Heights, C. Z.

In accordance with Executive Order of January 7, 1920, and your circular No. 173 of January 31, 1920, I hereby apply for permit to prescribe liquor for medicinal purposes to patients residing in the Canal Zone. Any prescriptions written under the requested permit will be upon the form and under the conditions prescribed in your circular No. 171.

Permission to prescribe liquor for use upon the Canal Zone, in accordance with 

providing all the requirements of Executive Order of January 7, 1920, are strictly adhered to.

Chief Health Officer. Balboa Heights, C. Z. 

(This application will be forwarded to the Chief Health Officer in duplicate.)

### THE PANAMA CANAL CANAL ZONE

APPLICATION FOR PERMIT TO IMPORT AND USE LIQUORS FOR SACRAMENTAL PURPOSES.
(Address)
(Date)
CHIEF HEALTH OFFICER,
Balboa Heights, C. Z.
I,
or the at at
desire to import into the Canal Zone and use for sacramental purposes only:  It will be obtained in
(Kind and amount of liquor)  and will be transported into the Canal Zone in the following manner:
This amount of liquor will be necessary to cover the sacramental use thereof by the above-mentioned church or congregation for a period of days, and I will undertake to the best of my ability to see that none of the liquor applied for shall be used for other than sacramental uses.
I have now
My address for shipment purposes is
The above application is hereby approved:  (Signature)
Chief Health Officer,
(This application to be forwarded to the Chief Health Officer in duplicate)
(This application to be forwarded to the Chief Health Officer in duplicate)  THE PANAMA CANAL
(This application to be forwarded to the Chief Health Officer in duplicate)  THE PANAMA CANAL  CANAL ZONE
(This application to be forwarded to the Chief Health Officer in duplicate)  THE PANAMA CANAL  CANAL ZONE  HEALTH DEPARTMENT
(This application to be forwarded to the Chief Health Officer in duplicate)  THE PANAMA CANAL  CANAL ZONE  HEALTH DEPARTMENT  FORM FOR USE OF PHYSICIANS WHEN PRESCRIBING LIQUOR FOR MEDICINAL PURPOSES.
(This application to be forwarded to the Chief Health Officer in duplicate)  THE PANAMA CANAL  CANAL ZONE  HEALTH DEPARTMENT
(This application to be forwarded to the Chief Health Officer in duplicate)  THE PANAMA CANAL  CANAL ZONE  HEALTH DEPARTMENT  FORM FOR USE OF PHYSICIANS WHEN PRESCRIBING LIQUOR FOR MEDICINAL PURPOSES.
(This application to be forwarded to the Chief Health Officer in duplicate)  THE PANAMA CANAL  CANAL ZONE  HEALTH DEPARTMENT  FORM FOR USE OF PHYSICIANS WHEN PRESCRIBING LIQUOR FOR MEDICINAL PURPOSES.  is authorized to use and possess the following liquors for medicinal purposes:  Rx.  Amount  Directions:
THE PANAMA CANAL  CANAL ZONE  HEALTH DEPARTMENT  FORM FOR USE OF PHYSICIANS WHEN PRESCRIBING LIQUOR FOR MEDICINAL PURPOSES.  the following liquors for medicinal purposes:  Rx.  Amount  Directions:  This prescription to expire.  (1) I certify that I have made a careful physical examination of
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THE PANAMA CANAL  CANAL ZONE  HEALTH DEPARTMENT  FORM FOR USE OF PHYSICIANS WHEN PRESCRIBING LIQUOR FOR MEDICINAL PURPOSES.  the following liquors for medicinal purposes:  Rx.  Amount  Directions:  This prescription to expire.  (1) I certify that I have made a careful physical examination of and find thathe is in need of medical aid. I believe that the issue of this liquor is necessary and will afford h relief from the ailment with whichhe is suffering.  (2) I certify that  has consulted me professionally and that .he is in need of medical aid. Upon the best information obtainable I believe that the issue of this liquor is necessary and will afford h relief from the ailment with whichhe is suffering.

When prescriptions are for liquors to be used in a hospital, only one copy need be made, and it will be filed in the drug room. When the prescription is for liquor to be used outside of a hospital, the physician will place a copy of the prescription on file, the patient retaining the original as his authority to have the liquor in his possession.

When it is necessary to prescribe for individual patients liquor that must be obtained outside the Canal Zone, the physician will make out the prescription in duplicate and forward both copies to the Chief Health Officer. If approved for import it will be so indorsed by the Chief Health Officer, one copy will be returned to the physician who signed it for file, and the other to the patient as his authority to import, use, and possess the liquor.

### THE PANAMA CANAL CANAL ZONE HEALTH DEPARTMENT

### FORM TO BE USED IN KEEPING LIQUOR ACCOUNT, IN ACCORDANCE WITH CIRCULAR NO. 173.

LIQUOR ACCOUNT

Kind of Liquor....

Voucher or prescription.		Debit.	Credit.	Balance.
Date.	Number.	Debit.	Credit.	Datance.
• • • • • • • • • • • • • • • • • • • •				
• • • • • • • • • • • • • • • • • • • •				
• • • • • • • • • • • • • • • • • • • •				
	Total			

Account balanced and quantity on hand verified.

Date... Signature.

Note.—The date of receipt will be noted in the left-hand column and the amount in the Debit column. The expenditures will be noted by entering the voucher or prescription number in the left-hand column and the amount expended in the Credit column.

### Executive Order.

INSTRUCTION OF CANDIDATES FOR CLASSIFIED SERVICE.

The Executive Order of October 13, 1905, as amended on May 17, 1919, is hereby

amended to read as follows:

No officer or employee of the Government shall, directly or indirectly, instruct or be concerned in any manner in the instruction of any person or classes of persons, with a view to their special preparation for the examinations of the United States Civil with a view to their special preparation for the examinations of the United States Civil Service Commission. The fact that any officer or employee is found so engaged shall be considered sufficient cause for his removal from the service: *Provided*, that this order shall not be so construed as to prevent the Federal Board for Vocational Education, the Medical Departments of the Army and Navy, and any other branches of the Government from utilizing the government facilities and the services of federal officers and employees where such facilities or services may be necessary or useful in carrying out the duties imposed upon such departments or branches by law, in the technical and testing of disabled soldiers, sailors, and marines. training and testing of disabled soldiers, sailors, and marines.

As amended the order extends to government establishments generally the exemption heretofore made in the case of the Federal Board for Vocational Education.

THE WHITE HOUSE, January 13, 1920.

WOODROW WILSON

[No. 3215.]

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286). Age limits do not apply to persons entitled to preference because of military or naval service:

Dairy manufacturing specialist (male and female); \$1,800 to \$2,700 a year; March 9, 1920; form

Dairy manufacturing specialist (male and female); \$1,800 to \$2,700 a year; March 9, 1920; form 2118; age, under 45 years.*

Mechanician and laboratory assistant (male and female); \$5.25 a day; March 3-4, 1920; form 1312; age, 18 years but not 40 years.

Specialist in city school administration (male and female); \$3,500 a year; March 9, 1920; form 2118; age, under 60 years.*

Stenography and typewriting instructor (male and female); \$1,380 to \$1,500 a year; February 24, 1920; No. 79; forms 304 and 2226; age, 21 years and over.

Grazing assistant (male and female); \$1,200 to \$1,500 a year; April 7-8, 1920; No. 84; form 1312; age, 20 years but not 40 years.

Calorimetric ballistic engineer (male and female); \$2,400 to \$3,000 a year; March 2, 1920; No. 88; form 1312; age, 21 years and over.*

Preparator in botany (male and female); \$75 a month; March 3, 1920; No. 90; form 1312; age, 18 years but not 50 years.

18 years but not 50 years.

^{*}Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

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### Official Circulars.

### Appointment.

THE PANAMA CANAL,

EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., February 2, 1920. To all concerned—The appointment of Mr. H. A. A. Smith as a member of the Joint Commission, effective February 2, 1920, is hereby announced.

CHESTER HARDING. Governor.

### Acting Auditor.

THE PANAMA CANAL. EXECUTIVE OFFICE

BALBOA HEIGHTS, C. Z., February 2, 1920. To all concerned—Effective February 2, 1920, and during the absence of Mr. H. A. A. Smith, Mr. Elwyn Greene will act as Auditor, and Mr. W. H. Kromer as Assistant Auditor, of The Panama Canal.

CHESTER HARDING, Governor.

### Appointment.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., February 4, 1920. CIRCULAR No. 661-82:

Effective this date, Mr. Richard A. Wade is appointed Magistrate for the subdivision of Cristobal, vice Mr. John W. Thompson, resigned.

CHESTER HARDING, Governor.

### Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT.

BALBOA HEIGHTS, C. Z., February 4, 1920. CIRCULAR No. 228:

Effective February 2, 1920, Mr. Roy R. Watson is designated an accountable official of the Supply Department, The Panama Canal and Panama Railroad, vice Mr. Max Herz, and as such will account for all nonexpendable property in use by the Superintendent of the Supply Department.

ELWYN GREENE,

Acting Auditor, The Panama Canal.

Approved:

CHESTER HARDING, Governor.

### "Collect on Delivery" Service to United States.

THE PANAMA CANAL.

BUREAU OF POSTS, BALBOA HEIGHTS, C. Z., February 5, 1920. BALBOA HEIGHTS, C. Z., February 5, 1920.

To all postmasters—Effective at once, C. O. D. parcels may be accepted for the United States of America under the general provisions of Circular 37, dated May 5, 1919. Particular care should be taken to avoid the acceptance of any articles excluded from the insured and C. O. D. service by the United States Guide and all other articles of a quickly perishable nature.

C. H. CALHOUN, Director of Posts.

### Annual Passes.

PANAMA RAILROAD COMPANY, OFFICE OF MASTER OF TRANSPORTATION BALBOA HEIGHTS, C. Z., February 5, 1920.

CIRCULAR No. 1488:

All concerned—Effective Friday, February 20, annual passes for the year 1919 will not be honored for transportation.

The 1920 annual passes, which are now being

distributed, will be honored effective at once.

W. F. FOSTER,

Master of Transportation.

# MOVEMENTS OF OCEAN VESSELS.—Continued from

PORT OF CRISTOBAL—Continued.

	For.				San Francisco. High seas. Talara.	
*DEPARTURES.	Line.			*DEPARTURES.	Feb. 1   Georgina Rolph   Rolph Navigation & Coal Co   San Francisco.   Feb. 4   United States Navy   High seas.   Feb. 6   Lady Sybil.   International Petroleum Co   Talara.	
	Vessels.				Georgina Rolph Cleveland (r). Lady Sybil	
	Date.		SALBOA.		Feb. 1. Feb. 4. Feb. 6.	
	From.	Cartagena. New York.	PORT OF BALBOA.		Valparaiso. Coquimbo. Amapala. Talara.	San Francisco.
*ARRIVALS.	Line. Panama Railroad Cattle Industry Cartagena Panama Railroad Steamship Line New York.	*ARRIVALS.	n (q). Rolph Navigation and Coal Co   Valparaiso. United States Shipping Board Coquimbo. S. S (r) United States Navy Amapala. International Petroleum Co Talara.	Japanese Government		
	Vessels.	Caribbean			Georgina Rolph (q). Lake Fitch (q). Cleveland, U. S. S (r) Lady Sybil	Yakumo (r)
	Date.	Feb. 7. Feb. 7.			Jan. 31 Jan. 31 Feb 1	Feb. 4

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### Prices of Coal.

THE PANAMA CANAL, PANAMA RAILROAD COMPANY, ACCOUNTING DEPARTMENT, BALBOA HEIGHTS, C. Z., January 29, 1920.

CIRCULAR RA-672:

To all station agents—The following prices per ton of 2.240 pounds have been fixed for the sale of coal for local use, effective February 8,

Colon and Cris-Panama Balboa and line tobal points

1. To Panama Canal and to Panama Railroad, at coaling plants, without

ton.

4. To parties taking less than carload lots from plants,

cars. or bins..... 14.00 15,50 15.50

5. To employees of The Panama Ca-nal, Panama Rail-road, United States road, United States
Government, and
those entitled to
employees' rates,
including Santo
Tomas Hospital.... 13.00

14.50 14.50

The following are the prices of coal furnished to steamships, effective November 16, 1919, as published in Panama Canal Tariff Supplement No. 2:

Colon and Cristobal Balboa

14.50 \$14.50

steamships, including

or special trimming in bunkers for convenience of ves-sel, an additional charge of

sel, an additional charge of
60 cents per ton will be
made for extra handling.
5. For lump coal for galley use,
delivered in sacks, additional charge per ton \$10.
Should the vessel furnish
satisfactory sacks, the price
will be only \$3 per ton addi-

tional. Not more than 5 tons will be supplied to a vessel.

6. For coal for cargo which will be delivered only in excep-tional cases, after special authority is given by the Governor....

... \$16.00 \$18.00

H. A. A. SMITH. Auditor.

Approved, effective February 8, 1920. CHESTER HARDING,

Governor, The Panama Canal.

### Increase in Price of Ice.

THE PANAMA CANAL, Supply Department. Cristobal, C. Z., February 7, 1920.

BULLETIN No. 919-7:

To all concerned—Effective March 1, 1920, the retail price of ice will be increased from 30 cents to 40 cents per 100 pounds. Ice cards for March will be figured on this basis and collections from customers should be made

accordingly.

J. J. JACKSON, General Manager, Commissary Division.

### Misdirected Letters.

BALBOA HEIGHTS, C. Z., February 11, 1920. The following insufficiently addressed mail has been received in the office of the Director of Posts, andmay be obtained upon request by the addressee. Request may be made by telephone, calling No. 182, Balboa:

Backus, W. C.
Barker, Robert
Brooks, Mrs. Earle G.
Brown, Fred W.*
Brown, Louis.* Christobee, Alex.*
Dillon, Mrs.Wenonah A.
Clark, G. E.
Custed, W. D.
Elhorn, Mrs. Emmy Fletcher, B. J. Fleming, Joseph M. Forsberg, E. S. Geddes, Geo * Godfrey, Mrs. Madeleine Goodman, Paul

Hardwick, Rurl Hartman, Ferd Henry, E. G.* Hoby, Mrs. H. Holcomb, Mrs. Adelma

Johnson, Miss Eva.† Jones, Fred Kennedy J. W.† Kirkpatrick, F. A.

Lougon, Mrs. Hilda Lucey, A. T. Morse, Mrs. G. C. Murphy, Robert E. Olsen, E. J. Payne, Mrs. R. T. Penman, Miss Marguer-ite Phillips, Mrs. R.
Rearidon, Maurice.
Reese, R. N.
Reilly, Miss Alice
Reuterias, Jose
Robinson. Van H.
Rose, A. M.
Rose, Mrs. C.
Sawyer, Wm. T.
Smith, Enrique Ernesto†
Smith, W. R.
Stanley, J. P.
Stewart. Emel
Terry, E. H.
Theller, Mrs. Olaf E.
Thomas. James
Whitaker, R. W.†
Wilkerson, R. W. Phillips, Mrs. R.

*Paper. †Card.

### Sale of Nails.

Sale of Nails.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10.30 a. m., February 20, 1920, and then opened, for the purchase of all or part of about 5.450 pounds 10d shop-worn finishing nails. Prospective purchasers may inspect these nails by inquiring at section "B." Balboa storehouse (telephone No. 381). Proposals must be accompanied by postal money order, or certified check on an acceptable bank, payable to the order of the Collector, The Panama Canal, in an amount not less than 10 per cent of the amount bid. Depos't of unsuccessful bidders will be returned, but deposit of successful bidder will be retained as a guarantee to complete contract. Envelope should be marked, "Proposal for the Purchase of Nails." The Panama Canal reserves the right to reject any or all bids. the right to reject any or all bids.

### Sale of Metal Checks.

Sealed bids will be received in the office of the Chief Quartermaster. The Panama Canal, Balboa Heights, up to 10.30 a.m., February 12. 1929, and then opened, for the purchase of all or part of a lot of approximately 75.000 obsolete metal checks, weighing about 1,500 pounds. These checks may be inspected on any working day, during office hours, by inquiring at Room 101, Accounting Department (telephone No. 22), Administration Building, Balboa Heights. Bids must be submitted on the bas's of price per pound, and be accompanied by postal money order, or certified check on an acceptable bank, in an amount not less than 20 per cent of the amount bid. Bids should be plainly marked on the envelope: "Proposal for the purchase of metal checks." Deposit of unsuccessful bidder will be held as a guarantee to complete contract. Award will be made upon the payment of the full amount bid, and metal checks must be removed within 30 days thereafter. The Panama Canal reserves the right to reject any or all bids.

### Sale of Electric Trucks and Spare Parts.

Sealed bids will be received in the office of the Chief Quartermaster. The Panama Canal, Balboa Heights, C. Z., up to 10.30 a. m., February 25, 1920, and then opened, for the purchase of four (4) "Buda" cargo-handling electric trucks and spares. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

### Additions to Commissary Stock.

Dry Goods Section. Beads, ivory, carved, 80s, string...... \$2.53 Dress goods: ress goois.
Cloth printed, crepe, yd.
Voile, fancy, white, 36", yd.
Voile, fancy, white, 36", yd.
Voile, fancy, white, 36", yd. 84 1.03 .97 Holders, dribrush, ea.... .30 Kimonos: 3,00 Crepe, cotton, striped. men's, ea..... Crepe, cotton, striped, men's, ea..... Crepe, cotton, striped, men's, ea.... Crepe, cotton, embroidered, men's, ea... 2.60 3 00 Crepe, cotton, embroidered, men's, ea.. 2.95 Crepe, cotton, embroidered, men's, ea.. Crepe, cotton, embroidered, ladies', ea.. Crepe, cotton, embroidered, ladies', ea.. Crepe, cotton, embroidered, ladies', (S/N 2.60 2,90 16295, 16296, 16297 2.75 Crepe, cotton, embroidered, ladies, '(S/N 16298, 16299, 16302) ea. Crepe, cotton, embroidered, ladies, 'ea.. Crepe, cotton, embroidered, ladies, '(S/N 2.60 2.50 2.40 pink or blue, box ..... .28 Grocery Section. Arrow root, powdered. 1-lb. bag...... .38 Hardware Section. Coasters, nickel plated, ea..... .38 Dishes 

### Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, hank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	lsthmian residence.	Employed by-	Date of death.
Paul Caroline James Griffin alias Griffith Theophilus Mann Nathaniel Matthews Jeremiab Robinson.	22762 42990 38691	Barbados Barbados Jamaica.	Panama Panama Colon	Health Department Supply Department Pacific Locks Coaling Station Mechanical Division	January 20, 1920. January 20, 1920. January 13, 1920.

### Rates at Hotel Aspinwall, Taboga.

### The following are the current rates at the Aspinwall:

Employees: Dinner, lodging, and breakfast	\$2.00
Employeesper day	2 75
Children under 12 years of ageper day	1.25
Servants of employeesper day	1.50
Employees for stay of 7 daysper day	2.00
Reduction of 10 per cent for employees on above rates for stay of 30 days.  Further reduction of 10 per cent for families of four or more.	
Nonemployees	3.50
Children of nonemployees	1.50
Servants of nonemployees	1.75
Breakfast	1.00
Meais without room Luncheon	1.25
Dinner	1.25

Hotel patrons desiring to send trunks should arrange to have them delivered at the launch landing by 9.30 a. m., addressed to themselves, care of Hotel Aspinwall. Freight will be transported on the a. m. trip on Mondays, Thursdays, and Saturdays.

For further information address Manager, Hotel Aspinwall, Taboga, via Balboa, C. Z.

### COMMISSARY NOTES.

### White Drill Overalls.

The commissary purchasing agent has advised that he has succeeded in making a very fortunate purchase of white drill overalls. These will come forward by an early departure and will sell for \$2 per pair.

### Bungalow Rugs Not Obtainable.

Bungalow rugs, which have found considerable favor among commissary customers, are not at present obtainable. The suppliers have written that they have nothing to offer now and that from present indications it will be late this fall before they will be in position to make quotations.

### Sugar.

Expressive of the sugar situation in the United States to-day is a recent communication from the commissary purchasing agent, who states that the wholesale price of granulated sugar is 15 cents per pound, less 2 per cent. It is still very scarce and the retail stores are selling it in 1-pound lots.

However, the refineries expect the price to come down soon and shipments of loaf

and powdered sugar for the commissaries account will shortly be made.

### Toys.

In order that full advantage may be taken of the Toymakers' Fair, to be held in New York this year at one of the large hotels from February 2 to March 13, a representative of the Commissary Division will be in attendance. It is stated that production will be only about 65 per cent of last year and the point has been reached where selections from catalogues would be a waste of time. In addition to being present at the Fair, the commissary buyer will consult with the purchasing agent stationed in New York in order that the best of seasonable goods in dry goods and other merchandise may be obtained.

### Prices on Shoes, Hosiery, Etc.

Shoe prices have not reached the limit, and lower prices on hosiery may not be expected for at least 5 years, according to the Boston Retail Shoe Dealers' Association and the head of a large hosiery works in the United States, respectively. Hopes for lower prices on underwear were discouraged at the recent annual meeting in New York of the National Wholesale Dry Goods Association.
It is said that shoe prices will go down "when there is more leather and less demand

for it here and abroad" and "when strikes cease and labor connected with shoes

buckles down and produces more pairs."

It is further stated that while shoes now on sale were made from leather costing 60 cents to \$1 a foot, those now being made for Spring are from materials costing 80 cents to \$1.25 a foot, plus higher costs for other materials and additional grants to

labor, with less pairs per man produced.

Prices to commissary customers will, however, be kept down to some extent due to large quantity purchases made in May and June, 1919, from four of the largest suppliers. The men's shoes bought at that time were for the most part medium grades, with \$15,000 worth of high-grade numbers. These shoes have now been received but the women's shoes on the same order are not yet all here. Duplicate orders recently placed for the same grade of goods run from \$2 to \$3 the pair higher. In work shoes the stock is particularly large, there being enough to last for a considerable time at last year's prices. It is in the better grade men's, women's, and especially children's shoes that the greatest advances are to be expected.

In assuring higher prices on hosiery for this year, it is said that with two-ply eighty mercerized yarn at \$5.65 a pound, \$1.50 may be cheap for a pair of summer stockings. Decreased production and increased manufacturing costs are given as the reasons for the anticipated rise. Opinion seems to be that no reduction will begin

until Europe begins producing enough for itself.

### Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."
The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."
Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

# THE PANAMA CANAL RECORD

Volume XIII.

OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address
The Panama Canal Record, Balboa Heights, Canal Zone, or
The Panama Canal, Washington, D. C.

Entered as second-class matter February 6, 1918, at the Post Office at Cristobal, C. Z., under the Act of March 3, 1879.

Balboa Heights, C. Z., February 18, 1920.



To Employees on the Silver Roll.

No. 27.

1. I am informed that a strike of certain of our silver employees belonging to the U. B. of M. W. E. and R. S. L. has been decided upon by officers of that organization in the United States in conjunction with a strike of certain railroad employees which may possibly occur in the United States.

2. I feel that I would be neglecting my plain duty to the men employed under my direction, in whose welfare I have a real interest, if I failed to counsel them to think matters over carefully before deciding

to quit the service by striking.

3. The wages of silver roll employees have always been based in a general way on the wages paid in the islands and countries near the Canal Zone. It has been the constant endeavor of the Canal Government to maintain for its employees a decent standard of living, with care for their housing, sanitary surroundings, and care in time of sickness.

4. Wages have been increased from time to time to maintain the standard of decency and comfort, the latest adjustment having been made this month. With these adjustments, taking as a basis the actual increases in the prices of standard articles used, our employees will be able to live at the standard to which they have been accustomed, which is believed to be higher than the standard for any community of the same class of labor elsewhere.

Remember what the facts are, and do not let them be distorted by false advisers who have no interest in you except to receive your con-

tributions of money.

5. There is no logical connection between the railroad employees in the United States and the silver employees on the Isthmus. Their class of work is wholly dissimilar; local conditions there and here are in no way comparable; and it must be apparent to our silver men that it is unreasonable to call a strike here because of the troubles of railroad employees in the United States. There is no wisdom but much folly in such a proposition. I understand that you have paid your money to the organization in the United States. Will that organization finance a strike here? Will you share in the benefits they gain for themselves?

6. Each man must make his own choice, without compulsion on the part of this administration. If a strike occurs, those who remain at work will receive cards daily entitling them to all the privileges accorded them regularly as employees. Those who do not report for work will receive the usual clearance slip showing that they voluntarily quit, and their places will be filled as soon as practicable by men who appreciate the advantages of being in the service of

The Panama Canal and Panama Railroad Company.

CHESTER HARDING, Governor.

Balboa Heights, C. Z., February 14, 1920.

1. Stevedoring:

### Further Visits of Atlantic Fleet.

The squadron of 16 destroyers with the flagship Rochester and flotilla flagships Blackhawk and Dixie which arrived at Cristobal on February 11, from Guantanamo, cleared for Kingston on February 16. The battleships Arizona, Nevada, Oklahoma, and Pennsylvania, comprising Division 7, are due to arrive at Cristobal on February 19, from Barbados, and the battleships Delaware, Florida, North Dakota, and Utah comprising Division 5, are due to arrive on February 23. The train consisting of the Columbia, Prometheus, Solace, Proteus, Brazos, and Bridge will arrive individually. The Brazos and Proteus have already arrived and are at anchor in Cristobal harbor.

Admiral H. B. Wilson, commander-in-chief of the Atlantic fleet, is on board the battleship *Pennsylvania* and exercising immediate command of the 7th Division. Rear Admiral C. B. Brittain is his chief-of-staff. Rear Admiral Edward W. Eberle is in command of the 5th Division, on the flagship *Utah*. Rear Admiral Edward Simpson.

commanding the train, is on board the Columbia.

### Schedule of Rates.

THE PANAMA CANAL, PANAMA RAILROAD COMPANY,
BALBOA HEIGHTS, C. Z., February 10, 1920.

The following amendments are made to Tariff No. 3, Schedule of Rates for Supplies and Services Furnished to Shipping and Allied Interests at the Panama Canal:

### ITEM 18—STEVEDORING AND TRANSFERRING CARGO.

Effective March 10, 1920.

(a)	General cargoper ton. \$	0.50
(b)	Cotton, wool, kapok, hemp, bark, leather, hides, and similar	
	commoditiesper ton of 2,000 lbs.	1.00
	If offered on measurement basis, rate will be the general cargo	
	rate of \$0.50 per ton.	
(c)	Boilers, locomotive parts, machinery, railroad cars, etc.,	
	scrap machinery and scrap boilers, etc., and other heavy	***
	weights of over two tonsper ton.	. 70
(d)	Structural iron over 35 feet longper ton.	.70
(e)	Loose bricks, conduit, sewer pipe, terra cotta, and tile per ton	.70
(f)	Loose scrap iron of irregular shape, pieces not over two tonsper ton	. 80
(g)	Ediliber, Switch and Gross treatment per spirit and since	1.40
(h)	Rough timber and logsper ton.	.011
(i)	Piling	1.00
	Tiorses, march and administration	.75
(R)	Cattleper head. Calves, goats, dogs, hogs, and sheepper head.	.50
(1)		1.20
(m)	Mail, baggage, and specieper ton.	1.50
(0)	Explosivesper ton.	2.50
(b)	Nitratesper ton.	65
Z. Iran	sferring cargo between vessels:	
For	transferring cargo from the cleared slings of the delivering carrier	
	o the slings of the receiving carrier, the following rates will apply:	
(a)	General cargoper ton.	1.50
(b)	Cotton, wool, kapok, hemp, bark, leather, hides, and similar	2 00
	commoditiesper ton of 2,000 lbs.	5.00
	If offered on measurement basis, rate will be the general cargo rate	
	of \$1.50 per ton.	
Note.	-Rubber will be stevedored and transferred under the heading of General Cargo.	

- (j) An additional charge of one-sixteenth of one per cent......1/16 of 1% of its value will be made for the safekeeping of specie or any other commodity on which freight is charged on an ad valorem basis as per bill of lading or on account of which the Panama Railroad assumes a greater liability than the maximum liability per package specified in paragraph 22 below.

  Minimum charge on specie..........per shipment..\$5.00
- 3. Isthmian cargo:
- (a) The charge for handling inward and outward local cargo across the docks at Cristobal and Balboa will be 90 cents per ton on general cargo, and on other commodities ½ the rates specified in Section 2, paragraphs b to j. Bills will be made against the delivering or receiving line as the case may be.

  23. "Special" cargo, that is, cargo carrying an ad valorem valuation, must be

listed on separate Accountable Receipts.

CHESTER HARDING, Governor, The Panama Canal. President, Panama Railroad Company.

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending February 14, 1920.

				Care	30
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
W. S. RheemLaura C. Hall	United States Shipping Board Pacific Metals Corporation				6
Teviot	Royal Mail Steam Packet Line Panama Railroad Cattle Industry. French Steamship Line		February 9 February 10		72 189
Mantaro	Peruvian Steamship Line	February 9		641	692
Balboa. Ucayali Salvador Barbadian	Colombian Maritime Co		February 14	2,183 866	238 723
AysenLake GarzaC. A. Canfield	Chilean Steamship Co	February 11 February 11 February 11	February 12 February 13	2,113; 2,444 10,000	(*) (*)
Van Rensselaer. Gen. W. C. Gorgas. Carrillo Lake Sparor	Royal Dutch West India Mall Co. Panama Railroad Steamship Line. United Fruit Co United States Shipping Board	February 12	February 13 February 13 February 12 February 13	13	763 4,307 (*)
Guatemala Tivives Caribbean	Pacific Steam Navigation Co United Fruit Co Panama Railroad Cattle Industry	February 12 February 12 February 13	February 13	2,342 24 203	184
Metapan	United Fruit Co Panama Railroad Steamship Line Luckenbach Steamship Corp Pacific Mail Steamship Co	February 14	February 14	11,884	2,178

[·] No cargo laded.

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending February 14, 1920.

				Car	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Chiriqui	National Navigation Co	February 9	February 9	Tons.	Tons.
Laura C. Hall	Pacific Metals Corporation Pacific Steam Navigation Co	February 9	February 10	11	12
Manavi San Mateo	Colombia Maritime Co		February 9 February 10		
Kronprinsessan Margareta	Johnson Line	February 11	February 11	215	
Guatemala San Jose Balboa	Pacific Steam Navigation Co Pacific Mail Steamship Co Colombia Maritime Co	February 13	February 12 February 14 February 14	135	56 57

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight, February 14, 1920.

THROUGH THE CANAL-ATLANTIC TO PACIFIC.

Canal	Net	6,895 6,895 6,882 2,585 2,585 4,689 4,869 6,371 108 4,669 6,33 1,46 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,16	1,588 3,798 1,751	6,260 4,400 350 692
Panama Canal Tonnage	Gross	130 9,827 7,983 3,766 1,541 1,541 19,699 4,813 4,731 7,667 7,667 7,667 6,529 6,529 6,529	2,482	8,088 5,914 741 1,213
E.	SIIO T	8,000 1,061½ 7,245 8,000 8,000 6,000 8,900 7,666 3,730	6,116	9,200
2000	Carigo	General General General General General General General General General General General General General General General General General General General General General	Oil	General
þ	101		San Diego Iquique Balboa Nagasaki Mejillones	Yokohama San Francisco Buenaventura. Champerico
ļ.	From			New York New Orleans Cristobal
Salt	draft	28.00 27.20 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 20 20 20 20 20 20 20 20 20 20 20 20 2	15.0 20.8 27.6 14.8	28.2
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	Ship		Black Hawk (e) Ontario (f) Lake Garza Sequoya I she Sanor	

(a) Launch. (b) Tug, towing target raft No. 51. (c) Tug. (d) Transport. (e) Tender. (f) Tug, towing target raft No. 42.

THROUGH THE CANAL-PACIFIC TO ATLANTIC.

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(Continued on page 395.) (x) Auxiliary tender. (k) Tug. (i) November 29, 1919. (j) Did not complete transit. (k) For orders. (l) 2,114,401. (m) 544,041 ft. B. M.

### Two More Ships in the West Coast Service.

The Grace Line has been allotted two ships by the United States Shipping Board for the service between New York and ports on the west coast of South America as far south as Valpacaiso. These are the Santa Elisa and Santa Teresa, sister ships of the Santa Ana and Santa Luisa, now in the New York to Valparaiso service. The new ships will begin voyages in April and from that time forth a bi-weekly service will be maintained by the four ships.

Stops will be made for landing and taking on both passengers and cargo at Cristobal. The two ships now in this service do not stop at the

Canal.

### Night Quarantine Service.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., February 16, 1920.

CIRCULAR No. 626-4 (superseding Circular 626-2):

- 1. Vessels from ports not subject to a yellow fever quarantine, arriving before 10 p. m. at either entrance to the Panama Canal (i. e., passing breakwaters at Cristobal harbor or anchoring off seaward end of dredged channel to Balboa harbor) will be boarded and inspected by the quarantine officer of the port, if quarantine inspection on the night of arrival is desired.
- 2. A charge of \$40 for passenger vessels, and \$20 for others, will be made against vessels availing themselves of quarantine inspection after sunset.
- 3. Vessels should give advance notice to Port Captain, through local agent or by radio, of their desire for such inspection, stating as near as possible the probable time of their arrival.

4. Final disposition of vessels inspected after sunset may be deferred

at the discretion of quarantine officer.

5. Vessels from ports subject to a yellow fever quarantine will be inspected only by daylight.

CHESTER HARDING,

Governor.

### Prices of Miscellaneous Supplies.

The following are prices to individuals and companies, including the 25 per cent surcharge and were effective February 1, 1920:

Commodity.	Unit.	Price.
Brass, bar	Lb.	\$0.50
Brass, sheet	Lb.	.625
Bronze, Tobin	Lb.	375
Cement, at Panama:		
Department of United States Government (includes surcharge and bags)	Bag	1.1925
Credit for empty bags returned	Bag	.085
Individuals and companies (includes surcharge and bags)	Bag	1.765
Credit for empty bags returned.	Bag	25
Cement. at Colon:	Dag	0.0
	D	1.0475
Department of United States Government (includes surcharge and bags)	Bag	
Credit for empty bags returned	Bag	.085
Individuals and companies (includes surcharge and bags)	Bag	1.58
Credit for empty bags returned.	Bag	.25
Charcoal	Cwt.	.9375
Copper, bar.	Lb.	.50
Gasoline, in drums (motor grade)	Gal.	.4375
Lead, sheet	Lb.	.125
Lead, pig	Lb.	.10
Lumber, ceiling, siding, and flooring 1" by 6".	M ft. B.M.	95 19
Lumber, flooring, 1" by 3" and 1" by 4".	Mft. B.M.	100.00
Lumber, nooring, 1 by a and 1 by 4"	M ft. B.M.	83.56
Lumber, yellow pine or fir (except ceiling)		
Metal, yellow.	Lb.	4375
Nuts, iron, machine, hexagonal	Lb.	.225
Nuts, iron, machine, square	Lb.	.1875

Commodity.	Unit.	Price.
Tails, common, wire	Lb.	\$0.062
fails, galvanized akum, Navy, spun	Lb. Lb.	.212
akum, Navy, spun	Lb.	.212
akum, Navy, unspun bil, fuel, at Balboa and Cristobal—in bulk:		
United States Army and Navy, and vessels operated by same.  Commercial vessels and individuals and companies.	42-gal. bbl. 42-gal. bbl.	*1.5
Individuals and companies from tank No. 116, Balboa	42-gal. bbl.	*1.5
bil fiel at Ralbon and Cristobal in drums or harrels.		
United States Army and Navy and vessels operated by same.  Commercial vessels and individuals and companies.	42-gal. bbl. 42-gal. bbl.	*1.
	42-gar. DDI.	1.
vils, greases, and nuoricants: Oil, air compressor cylinder. Oil, ammonia cylinder.	Gal.	.63
Oil, ammonia cylinder	Gal. Gal.	1.3
Oil cylinder dark marine	Gal.	.8
Oil cylinder dark marine	Gal.	1.1
Oil, oylinder, ice machine, steam. Oil, engine, dynamo.	Gal. Gal.	.78
Oil engine—in tins	Gal.	.68
Oil, engine—in barrels Oil, gas engine, extra heavy—in drums.	Gal.	. 56
Oil, gas engine, extra heavy—in drums	Gal.	.53
Oil, gas engine, heavy—in barrels. Oil, gas engine, heavy—in cases.	Gal.	.87
	Gal.	.56
Oil, kerosene—in drums. Oil, kerosene—in tins.	Gal.	31
Oil linseed boiled	Gal.	2.
Oil linseed raw	Ggl. Gal.	2.56
Oil, lard.	Gal.	2.3
Oil. marine engine.	Gal.	1.1
Oil marine engine	Gal. Gal.	.6
Oil, marine engine. Oil, marine engine.	Gal.	1 .20
Oil, "Mineral Seal"	Gal.	.31
Oil, "Mineral Seal" Oil, nonliquid.	Lb.	3
Oil, stationary engine. Oil, sperm.	Gal.	2.8
Cil. signal	Gal.	1.3
Oil valve	Gal.	.2
Oll, ear. Wax, lamp.	Gal. Lb.	.2
Trease, black, gear. Grease, yellow. cup. No. 3.	Lb.	.0
Grease, yellow, cup, No. 3	Lb. Lb.	.13
Grease, yellow, cup, No. 5.	Lb.	.2
Prease tunnel bearing	Lb.	1 :
Tallow Furpentine	Lb. Gal.	2.2
Curpentine  Curpentine substitute	Gai.	.46
Veseline	Lb.	.11
Paint, lead, white, dry. Paint, lead, white, in oil.	Lb.	-1
Paint, sinc, white, dry	Lb.	
aint, sino, white, dry. aint, sino, white, in oil. aint, sino, white leaded, 35 per cent in oil.	Lb.	.13
	Lb.	.13
Rope, Manila, 1" diameter.	Cft.	
Rope, Manila, †" diameter	Cft.	1.
tope, Mania, † diameter Rope, Manila, † diameter	Cft.	4.0
kope, Manila, ‡" diameter	Cft.	4.
Rope, Manila, I" diameter.	Cft.	6 7
Rope, Manila, 1" diameter	1 Cft.	12.1
Rope, Manila, 1 4" diameter. Rope, Manila, 1 4" diameter.	Cft.	16.5
Rope, Manila, 14" diameter	Cft.	26
Rope, Manila, 2" diameter	Cft.	47
Rope, Manila, 2¾" diameter	Cft.	77
Rope, Manila, 34" diameter	Cit.	102
Steel, bar Steel, spring.	Lb.	.1
steel cold rolled round	Lb.	.0
Steel, sheet. Steel, structural (angles, beams, etc.)	Lb.	0.
Steel, structural (angles, beams, etc.) Tin, block	Lb.	.0
Tin Range	Lb.	i
Tin, eheet	Lb.	
Tin, sheet. Washers, cut. Waste, colored.	Lb.	.2
Waste, white	Lb.	
Waste, white.  Elao, boiler plate, §" by 6" by 12"	Lb.	

^{*}No surcharge.

Item now on hand purchased at a cost over the price shown above will be given the purchase price.

### Weather Conditions in January, 1920.

The rainfall for the month was below normal everywhere, January, 1920, being the dryest January on record. Rainfall totals in the Canal Zone and vicinity ranged from a trace of rain at Balboa and Balboa Heights to 2.52 inches at Porto Bello. The greatest amount of rainfall on any one day was 0.47 inch at Porto Bello on the

The estimated rainfall over Gatun Lake watershed was 0.69 inch, compared with a 10-year mean of 1.73 inches, and over the Chagres River basin above Alhajuela

it was 1.15 inches compared with a 19-year mean of 3.08 inches.

The air temperature, wind movement, and evaporation were above normal, while the atmospheric pressure, relative humidity, and daytime cloudiness were below the The surface temperature of the sea was slightly above normal on the Pacific Coast and slightly below normal on the Atlantic.

No fogs were observed during the month. Light seismic disturbances were recorded

on the 4th, 9th, 26th, and 30th.

Gatun Lake hydrology-Mean elevation of Gatun Lake was 86.4? feet, maximum, 86.89 feet on the 1st; minimum, 85.94 feet on the 31st; evaporation from Gatun Lake surface was 6.562 inches. Rainfall on Gatun Lake drainage basin was 0.69 inch. The total yield of Gatun Lake watershed was 1.50 inches on the watershed. The total yield amounted to 217 per cent of the rainfall.

The following table summarizes the weather conditions for the month:

	p ₃	1		Tempera	ture.		P	recipitat	ion.				Win	d.	
Stations.	Pressure (reduced to mean of 24 hours).	Mean.	Maximum.	Date.	Minimum.	Date.	Mean relative humidity.	Total inches.	Station average.	Days with 01 inch or more.	Total move- ment (miles).	Prevailing direction.	Maximum velocity in miles.	Direction.	Date.
	29.856 29.876			Jan. 9 Jan. 23	73 69	Jan. 26 Jan. 13*	75.5 75.8	T 0.51 .05 .71	0.95 3.74 1.69 2.94	9 4 13	7,834 12,681 5,863 7,398		30 32 31 23	N. N. E. N. E. N.	Jan. 19 Jan. 10 Jan. 5 Jan. 20

^{*} And other dates.

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286). Age limits do not apply to persons entitled to preference because of military or naval service.

Field and laboratory aid in plant pathology; No. 67-amendment; February 18, 1920; age, 18 years but not 45 years

Teacher, Indian Service (male and female); \$720 to \$900 a year; February 18, March 17, April 21.
May 19, and June 23, 1920; No. 97; form 1312; age, 20 years but not 50 years.

X-ray technician (male and female); \$840 a year; March 2, 1920; No. 96; form 1800; age, 20 years but not 40 years.*

Specification engineer (male and female); \$2,000 a year; March 2, 1920; No. 93; form 1312; age, 25 years but not 45 years.*

Assistant in school hygiene (male and female); \$1,800 a year; March 9, 1920; No. 101; form 2118;

age, under 45 years.

Dental mechanic (male and female); \$1,800 to \$2,400 a year; March 9, 1920; No. 103; form 1800;

age, 18 years and over.*

Mechanical draftsman (male and female); chargeman, \$10 to \$12 a day; draftsman, Grade A, \$8 to \$9.60 a day; Grade B, \$6 to \$7.20 a day; Grade C, \$5.20 a day; No. 104; form 1312; age, 18 years

Piping draftsman (male and female); chargeman, \$10 to \$12 a day; draftsman, Grade A, \$8 to \$9.60 a day; Grade B, \$6 to \$7.20 a day; Grade C, \$5.20 a day; No. 105; form 1312; age, 18 years and over.† Assistant in cotton classing (male and female); \$1,500 to \$2,700 a year; March 9, 1920; No. 100; form 2118; age, 21 years but not 45 years.* Petroleum engineer (male and female); \$3,000 to \$4,500 a year; March 16, 1920; form 2118; age, under 45 years.* Assistant pervaleum engineer (male and female); \$3,000 to \$4,500 a year; March 16, 1920; form 2118; age, under 45 years.*

Assistant petroleum engineer (male and female); \$2,100 to \$3,000 a year; March 16, 1920; form 2118, age, under 45 years.*

Laboratory assistant (male and female); \$900 to \$1,200 a year; March 9, 1920; form 1312; age, 18 years but not 35 years.*

^{*}Nonassembled. Date given for nonassembled examinations is the last day for filing applications and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date. †Nonassembled. Applications will be received at any time until further notice.

# MOVEMENTS OF OCEAN VESSELS.-Continued from page 391.

		For.	Tampico.  New Orleans. New Orleans. Mindelphia. Habana. Habana. Habana. Galveston. New York and wayports. New York and wayports. New Orleans, wayports. New York and Kingston. Baltimore. Tampico. New York. New York. New York. New York. New York. New York.	
	*DEPARTURES,	Line.	United States Shipping Board Tan Tanaman Railinand Cattle Indistry Usited States Slipping Board Philipined Fruit Co Brailing Fruit Co Brailing Fruit Co Brailing Fruit Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Co Brail Brail Co Brail Brail Co Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brail Brai	
		Vessel.	W. S. Rheems Caribbean Fort Goorge Cornels (4) Fylgins (6) Fylgins (7) Fylgins	
RISTOBAL.		Date.	Feb. 8. Feb. 9. Feb. 9. Feb. 9. Feb. 10. Feb. 11. Feb. 11. Feb. 13. Feb. 13. Feb. 13. Feb. 13. Feb. 13. Feb. 14.	
PORT OF CRISTOBAL.		From.	New York and Habana. New Orleans. Colorado Bar. Tampico. Habana. Tampico. Liverpool and wayports. Guantanamo. New York via Kingston. New Orleans, Kingston.	
	#ARRIVALS.	Line.	ted Fruit Co.  ted Fruit Co.  Benedict.  Benedict.  Benedict.  Benedict.  and Unite Manil Co.  ted States Navy  ted States Na	lug, (q) cruiser.
		Vessel.	Calamares Cartago Cartago Deri George Doelda (4) Abungarez C. A Canfield Bartadian Van Ren selser U. S. S. Rochester U. S. S. Rochester Crownshield Britankey Block Flower Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Blo	(n) Yacht. (o) Collier. (p) Idg.
		Date.	Feb 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	(n) Yach

-			
	For.	Pedregal, Kobe.	.3
DEFARIONES.	Line.	National Navigation Co. Japanese Government.	Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.
	Vessel.	Feb. 9. Chiriqui (r). Feb. 10. Yakumo (g).	4-hour basis and all ho
	Date.	Feb. 9 Feb. 10	pressed on the 2
	From.		
*ARRIVALS.	Line.	United States Shipping Board.  Rational Navigation Co. Pan-American Line.  Pan-American Line.  San Francis Taltal.  United States Shipping Board Tocopilla.	Other than ships passing through the Canal.
	Vessel.	Lake Gebhart Chiriqui (r) San Mateo San Joaquin Lake Frenchton	r ship. *Oth
	Date	Feb. 9. Feb. 10. Feb. 13	(r) Moto

*Other than ships passing through the Canal.

(r) Motor ship.

PORT OF BALBOA.

### Deceased Employee.

The estate of the following deceased employee of The Panama Canal is now in process of settlement, and any claim against this estate, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. This name will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Joseph Sheppard	38978	Jamaica	Colon	Coaling Station	February 1, 1920.

### Official Circular.

### Children Not Permitted on Counters.

THE PANAMA CANAL. SUPPLY DEPARTMENT

CRISTOBAL, C. Z., January 29, 1920.

BULLETIN No. 937:

To commissary managers—For the protection of our trade, it is necessary to instruct that customers be not permitted to place their children on the counters.

This applies more particularly, of course, to sections where foodstuffs are sold.

J. J. JACKSON, General Manager, Commissary Division

### Sale of Clapet No. 7.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10,30 a.m., March 20, 1920, and then opened, for the purchase of clapet No. 7, located at Gatun. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids. Canal reserves the right to reject any or all bids.

### Rainfall from Jan. 1 to Jan. 31, Inclusive.

STATIONA.	Maximum in one day.	Date.	Total.
Pacific section— Balboa Balboa Heights Balboa Heights Miraflores Pedro Miguel Rio Grande Central section— *Culebra *Camacho Empire Gamboa *Juan Mina Alhajuela *Vigia Darien. Trinidad *Monte Lirio Atlantic section— Gatun. *Brazos Brook Colon †Bocas del Toro Porto Bello	Ins. T T O3 .03 .03 .03 .04 .13 .06 .02 .09 .42 .12 .01 .15 .11 .25 .11 .23 .88	4 & 19 10 & 19 20 20 20 2 2 7 7 7 15 20 6 & 20 20 20 11	Ins. T T .03 .03 .03 .05 .22 .15 .16 .52 .24 .01 .60 .37 .71 .30 .51 .655 .252

^{*}Standard rain gauge-readings at 5 p. m. daily. Automatic rain gauge at unstarred stations-values, midnight to midnight.

†Standard rain gauge-readings at 8 a. m. daily.

### Postal Address of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

January	Rainf	ail for	Thre	e Yea	rs.	
	1	INCHES.				
Stations.	1920	1919	1918	Station average.	Years of record.	Rainy days, 1920.
Pacific section— Balboa Balboa Heights Miraflores Pedro Miguel Rio Grande Central section—	T T .03 .03 .03	0.13 .28 .16 .48 .64	1.02 1.78 3.37 3.08 1.48	0.97 .95 1.59 1.07 1.08	21 22 12 13 16	1 1 1
Culebra Culebra Camacho Empire Gamboa Juan Mina Alhajuela Vigia Frijoles	.05 .22 .15 .05 .16 .52 .24	.62 1.03 .50 .55 .97 .75 .93 1 61	1.75 1 04 1.50 3.07 1.35 .93 1.37 3.03	1.51 .97 .74 1.69 .67 1.00 .77	30 14 15 36 10 21 12 9	2 3 3 4 3 4 6
Trinidad	.60	2.47	3 96 3 .92	2 59 2.67	13	7 7
Gatun	.71 .30 .51	1.42 2.48 1.82	4 03 4 72 3 .28	2 94 2 93 3.74	16 14 50	13 6 9

### Sale of Electric Trucks and Spare Parts.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10.30 a. m., February 25, 1920, and then opened, for the purchase of four (4) "Buda" cargo-handling electric trucks and spares. Detailed information and form of proceed received by the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Com posal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

### Sale of Tug "Miraflores."

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10.30 a. m., March 22, 1920, and then opened, for the purchase of the tug Miraflores. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

### Additions to Commissary Stock.

Grocery Section.

Cream, evaporated,		
Loju, 16-oz. bot		31
Post Togeties 8-07	nka	13

### Cable Address of The Panama Canal.

The cable address of The Panama Canal, on

Mail for ships passing through the Canal Canal, on the Istimus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

Mail for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

### Hotel Aspinwall Launch Schedule.

Following is the schedule of launch service maintained by the Supply Department between Balboa and the Hotel Aspinwall on Taboga Island:

Daily.
Leave Port Captain's boat landing, near dock 19 10.00 a. m.
Leave Taboga 8.00 a. m.
Sundays and Holidays.
Leave dock 19, Balboa
Leave Taboga returning
Leave dock 19, Balboa 4.30 p. m.
Leave Taboga returning 6.00 p. m.
Saturdays and days preceding holidays.
Leave dock 19, Balboa
Leave Taboga returning
Leave dock 19, Balboa 6.00 p. m.
Returning from Taboga the following day 8.00 a. m.
Fares (each way)—Employees, 35 cents; nonemployees, 60 cents; children of
employees over 6 and under 12 years old, 25 cents; of nonemployees, 40 cents.
Hotel patrons desiring to send trunks should arrange to have them delivered at the launch landing
by 9.30 a. m., addressed to themselves, care of Hotel Aspinwall. Freight will be transported on the a. m. trip on Mondays, Thursdays, and Saturdays.
For further information address Manager, Hotel Aspinwall, Taboga, via Balboa, C. Z.

### Schedule of Official Jitney Service.

Following is the schedule of the official jitney plying between Balboa shops and the Ancon police station, carrying employees in the conduct of official business, upon presentation of passes issued by the Chief Quartermaster, or of the "special pass" issued by the Governor:

[FROM ANCON POLICE STATION TO BALBOA SHOPS.]

FROM ANCON POLICE STATION TO BALBOA SHOPS.
Police Station Leave on the hour and half hour.
Administration Building Leave 7 minutes and 37 minutes after the hour.
Balboa Commissary Leave 10 minutes and 40 minutes after the hour.
Balboa shops Arrive 15 minutes and 45 minutes after the hour.
FROM BALBOA SHOPS TO ANCON POLICE STATION.
Balboa Shops Leave 15 minutes and 45 minutes after the hour.
Port Captain's Office Leave 18 minutes and 45 minutes after the hour.
Balboa Commissary Leave 20 minutes and 50 minutes after the hour.
Administration Building Leave 25 minutes and 55 minutes after the hour.
Ancon Police Station Arrive on the hour and half hour.

### COMMISSARY NOTES.

### Pistachio Ice Cream.

Pistachio Ice Cream will be available for order for February 22, 1920 (Washington's Birthday).

### Books.

A large shipment of books of the Modern Library has been received and distributed to the line stores.

### Commissaries Closed Monday, February 23.

Commissaries will be closed Monday, February 23, with the exception of the grocery and cold storage sections and cigar counters, which will be open only from 8 a. m. to 0 a. m.

### Cigars and Cigarettes.

Shipments of cigars and cigarettes from a certain firm in Habana have been temporarily suspended as during the last few weeks there has been a harbor strike in that port which has paralyzed all activities.

### Ice Bills for March.

All commissary customers are requested to pay their ice bills for March not later than the morning of the 24th of this month. It is necessary to ask that this be done in order to save considerable overtime on the part of the clerks handling ice accounts in the General Manager's office. February being a short month, the last day of which falls on Sunday, these employees have two days less than usual in which to do their work.

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AD PASSENGER TRAIN TIME-TABLE NO. 30. EFFECTIVE DECEMBER 25, 1010
OAD PASSENGER TRAIN I
ROAD PASSENGER TRAIN I
LROAD PASSENGER TRAIN I
TEROAD PASSENGER TRAIN I
AILROAD PASSENGER TRAIN I
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Sunday only.	12	P. M.	9.40	9.46	9.54	9.58	10.10	10.22	10.32	10.39	10.50	11.05	. 12	• •	•	12	
Sat'day Sunday only.	10	<u> </u>					A. M. 12.05	12.17	12.28	12,35		1.01	<u> </u>	1.15		10	
- a	-	,		5.10	_			5.47		\$0.0	6.15	6.30	6.40	6.45	P. M.	600	
DAILY.	80	A. M.	11.05	11.12		11.23	11.35	11.47	М М	12.04	12.15	12.30	12.40	12.45	P. M.	80	
	4	A. M.	7.15	7.21	7.30	7.34	7.46	7.50	/n.«	8.14	8.25	8.40		8.55		-	
MAIN LINE STATIONS.		Leave	Balboa Heighte	Corozal Miraflores Looks	Red Tank	Pedro Miguel	Summit	Camboa	L'arrell	Frijelea	Monte Lirio	Gatun	Mount Hope	Colon	Arrive		
Sunday only.	11	P. M.	9.40	9.52		10.07	10.18	10.25		10.49	11.04	11.09	11.20	11.25	_	11	
Sat'day Sunday only.	60	P. M.	11.35	11.45	A. M.	12.04	12.15	12.22	12.33	12.45	1.00	1.05	1.15	1.20	A. M.	60	
Daily except Sat'day	101	P. M.	11.20	11.40	h	66.11 M	f12.10	112.18	12.30	f12.42 1.00		f1.08	1.15	1.20	A. M.	101	1 1 1 1 1
	7	P. M.	5.05	5.17	0	0.32	5.43	00.0	6.02	6.14	6.26	6.30	6.40	6.45	F. M.	7	All Avaing about
DAILY.	9	A. M.	11.05	11.17	9	11.32	11.43	DG.11	12.02	12.14		12.32	12.45	12.50	F. M.	ю	Allan
	,	A. M.	7.15	7.27	6	74.	7.53	8.00	8.14	8.30		8.50	9.00	9.05	A. M.	80	
MAIN LINE STATIONS.		Leave	Mount Hope	Ostun.		Monte Latio	Frijolea.	Carlen	Gamboa	Summit. Pedro Miguel.	Red Tank	Mirationes Locks	Balboa Heights	Panama	ALTIVO		

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	\$2	A. M. 9.10	8.51 8.48 8.45	8.41	88.80	A. M.	22
	30	A.M. 6.25 6.15	5.56	6.48	4.35	A. M.	2
LAS CASCADAS BRANCH STATIONS.	•	Leave Empire Culebra	Paraiso. Pedro Miguel Red Tank	Mirsflores Locks		Arive	
	22	A. M. 6.45 6.55	7.07	7.19	7.24		=
	80	A. M. 9.25 9.30	9 43 9.46 9.49	9.53	9.58	A.M.	=
DAILY.	36	P. M. 1.35 1.40	1.53 1.56 1.59	2.03	2.15	P. M.	98
	28	P. M. 4.55 5.00	5.13 5.16 5.19	5.23	5.28		37
	83	P. M. 7.05		7.28	7.33	P. M.	68
Daily except Sat'y	41	P. M. 11.30 11.35		F11.57	f12.01 12.09 12.09	A. M.	=
Sund'y :	43		12.45	812.56	0.00	A.M.	43
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# THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address
The Panama Canal Record, Balboa Heights, Canal Zone, or
The Panama Canal, Washington, D C.
Entered as second-class matter February 6, 1918, at the Post Office
at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII. Balboa Heights, C. Z., February 25, 1920.

No. 28.

### Ship Repairing at Canal Shops.

During the war the so-called "water-front work," that is, running repairs to ships in transit, gradually decreased. The trend of the traffic was north. Since the end of the war the trend has changed to south and the repair work has increased to a marked degree, also because many more ships are going through the Canal. Many of the new ships have been thoroughly shaken down and the defects are beginning to be apparent. Usually 8 or 10 ships are on the water front at Balboa shops, most of them requiring repairs to auxiliary machinery and pipes, and many of them main engine adjustments. Boiler trouble is due principally to "salting up." The following vessels were at the Balboa shops last week:

Tug La Boca Anita Lake Fitch C-32 (French S. F.) Submarine R-23 Submarine R-27 Submarine R-24 Launch, Sea Kid, Jr. DeMayo Barge No. 13 Cawker Xenia Lake Gebhart Atlanthus Supply Boat No. 2

Barge No. 131 Petunia Cruiser Lima San Joaquin Acatutla Cristobal Dredge No. 86

### Ex-German Ships Purchased by Panama Railroad Company.

The Panama Railroad Company has purchased for its steamship line the steamers General G. W. Goethals, General W. C. Gorgas, General O. H. Ernst, and General H. F. Hodges from the United States Shipping Board, at a transfer price of \$750,000. These four steamers are ex-German vessels. Their former names were, respectively, the Grunewald, the Prinz Sigismund, the Sachsenwald, and the Savoia. At the outbreak of the war in Europe they took refuge in Cristobal harbor. and were consequently interned. When hostilities began between the United States and Germany they were seized by the authorities of the Canal Zone. They were towed to Gatun Lake on April 9, 1917, thence to Balboa shops for the overhaul necessary after their having lain at anchor for two years and eight months. They were placed in service between New York and Cristobal, and the General W. C. Gorgas and the General O. H. Ernst, later were engaged in carrying nitrate from Chilean ports to the United States. These two made trips to France during the war; the General G. W. Goethals and the General H. F. Hodges also made trips to France, after the signing of the armistice.

The other vessels of the Panama Railroad Steamship Line between New York and Cristobal are the Ancon and the Cristobal, the Panama and the Colon, the Allianca and the Advance. The colliers Ulysses and Achilles ply between Norfolk and Cristobal, and the steamship Caribbean operates between Cristobal and Colombian ports, carrying principally supplies for The Panama Canal but handling commercial freight as well. The Ancon and the Cristobal were likewise put in the nitrate

trade and the Ancon was used as a transport after the armistice was signed. The Colon, Panama, Allianca, and Advance were retained in the regular service between New York and Cristobal, being necessary

to the operation of the Canal.

The General H. F. Hodges is now employed, with the Advance, in a service between New York and Haitian ports. The three other ex-German ships are on the run between New York and Cristobal, with sailings via Port au Prince as traffic warrants, the other ships on this run being the Ancon, Colon, Panama, and Allianca. The Cristobal is being reconstructed at Balboa shops. When the Shipping Board took over the ex-German vessels for war purposes, the Panama Railroad Steamship Line was replenished with other steamships, of the "Lake" type, carrying cargo only. These have been returned to their original owners, with the exception of the Lake Hurst and the Lake Wilson, which are occasionally used as necessity requires.

The General O. H. Ernst and the General H. F. Hodges do not carry

The General O. H. Ernst and the General H. F. Hodges do not carry passengers. Data with respect to passenger accommodations and other features of the Panama Railroad vessels are presented herewith:

Steamer.	Passenge	er accomm	odations	Gross	Net		2	D (1	
bleamer.	First	Second	Steerage	tonnage	tonnage	Length	Beam	Depth	Master
Advance	60 68	53		2,458 4,016	1,481 2,441	295' 335'	38′ 5″ 42′	23′ 5″ 23′ 10″	R. S. Dodge. W. J. Scully.
AnconCaribbean	78		52 12	9,332 2,026	7,060 417	489' 6'' 288'	58' 47' 7''	28' 11'' 25'	J. T. Hudgins. J. H. O'Leary.
Colon	159 130	40	52	5,670 9,332	3,513 7,070	360' 489' 6''		32′ 2″ 28′ 10″	H. Prager. Benj. Corning.
Gen. G. W. Goethals Gen. H. F. Hodges Gen. O. H. Ernst			100	4,833 2,732 3,564	2,878 1,667 2,259	353′ 1″ 323′ 6″ 356′ 5″		25' 23' 24'6"	E. C. Roberts. O. B. Thompson. E. W. Spurr.
Gen. W. C. Gorgas Lake Hurst	68			4,564 2,308	2,826 1,378	370' 2'' 253' 6''		26' 9" 20' 5"	J. E. Stone. H. Monteith.
Lake Wilson				2,151 5,665	1,286 3,516	250' 6'' 360'	43′ 8″ 50′	20' 5'' 32' 2''	Harry Newman. W. B. Oakley.

### Periodic Underwater Work on Submarines.

The seven R-type submarines stationed at Coco Solo were brought through the Canal to Balboa shops a few days ago for periodic underwater work. They returned to Coco Solo, last week. They were put in dry dock and their bottoms were cleaned and painted, sea valves were overhauled and tested, various tanks and part of the hulls under the superstructure were given protective coatings. While this work was in progress various miscellaneous repairs were made, such as tightening up the vent system, and making minor adjustments to the operating mechanism. The mass of machinery in the submarines makes them more difficult to maintain than the ordinary run of vessels.

Submarines have heretofore been dry docked at Cristobal, but the greater draft of the new R-type makes this impracticable, so that hence-

forth the work will be done at Balboa.

### Bills Against Steamships.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., July 26, 1918.

All concerned—The attention of departments and divisions is called to the delay in rendering bills against steamships. The regulations provide that all departments and divisions of The Panama Canal and Panama Railroad Company will furnish promptly to the Collector the necessary bills for material, supplies, or service furnished steam-

ships, sending duplicate copy to the Auditor. The regulations also provide that the Collector shall make immediate settlement with

shipping operators after their ships have left the Canal.

The practice of unnecessary delay in rendering bills must be discontinued and instructions should be given all employees responsible for the making of bills that charges against steamships must be furnished the Collector at once.

The Collector has been instructed to report to me further delin-

quencies in the rendition of bills against steamships.

CHESTER HARDING.

Governor.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending February 21, 1920.

				Carg	0-
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Caribbean Ucayali	Panama'Railroad Cattle Industry. Peruvian Line. Chilean S. S. Line		February 15 February 16 February 16		Tons. 70 704 653
Metapan Edgar F. Luckenbach. Chile Barbadian	United Fruit Co Luckenbach S. S. Corporation Pacific Steam Navigation Co Leyland Line.		February 16 February 16 February 16 February 17		14 (*) 746 1,711
E. D. Kingsley Pastores Lake Capen Gen. G. W. Goethals	Kingsley Navigation Co	February 16 February 16 February 16	February 17	494 2,023 2,090	(*) ** \$ (*)
Achilles	Panama Railroad Steamship Line. Pacific Steam Navigation Co. Pacific Steam Navigation Co. Pacific Metal's Corporation. United States Shipping Board.	February 16 February 17	February 19 February 20 February 21	1,058} 67}	(*) (*) 904 39 (*)
W. L. Steed	United States Shipping Board United Fruit Co Pacific Mail S. S. Line United States Government	February 18	February 19 February 19 February 20	350 865	(*) 72 2,003 49
Saint JeanJamaicaUrubambaCaribbean	French Line Pacific Steam Navigation Co Peruvian Line Panama Railroad Cattle Industry.	February 19 February 20 February 20		406 856 2,452	
Point Bonita. Lake Fillion. Colon. Tacticlan.	Pacific Mail S. S. Line United States Shipping Board Panama Railroad S. S. Line Harrison Line	February 21 February 21 February 21		3,621 1,205	

^{*} No cargo laded.

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending February 21, 1920.

				Cargo-		
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.	
Cauca. Benjamin Brewster Ansaldo V San Jose Cauca. Laura C. Hall	National Navigation Society	February 15 February 19 February 20 February 20	February 15 February 20 February 20 February 20	170 58	Tons.	

Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Fanama Canal, Washington, D. C."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington"

Malls for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight, February 21, 1920.

Panama Canal 4,993 1,403 3,133 4,226 3,457 2,790 Товпаде 6,193 7,082 3,189 4,505 6,519 4,040 8,117 8,151 2,352 1,582 6,932 8,249 130 Gross 6,610 2,208 4,161 8,568 5,988 5,453 4,267 8,000 6,939 792 7,811 6,021 7,900 39 General..... General..... General..... Coal General.... Coal, general gas. Cargo Navy coal. Crade oil General, General General General General Antofagasta.... San Francisco... Guayaquil.... Lyttleton.... Auckland....Buenaventura. Callao..... Bremerton.... Tumaco..... Valparaiso.... Caleta Buena. Valparaiso.... San Francisco. Iquique ..... Iquiq se..... Puntarenas Valparaiso. Valparaiso. Guayaquil Mejillones. For Dunkirk.... Cristobal... Norfclk... New York... Cristobal.... Genoa.... Norfelk.... Weymouth... Liverpool... Charleston. Liverpool..
Baltimore.. Cristobal. New York. New York. Norfolk.... New York. From Cristobal. Norfolk... Tampico. Cristobal Cristobal 20.11 18.3 20.6 20.6 26.9 21.0 Salt water draft 17.1 16.0 16.3 13.0 20.0 16.6 119.2 825.25.6 THRUTCH THE CANAL—PACIFIC TO ATLANTIC, THROUGH THE CANAL -ATLANTIC TO PACIFIC. Beam 257.0 446.6 6.6 6.44.3 758.1 16.0 57.2 60.0 50.0 53.4 57.0 32.0 52.0 52.0 443.5 51.1 51.5 58.0 37.0 35.5 58.0 25.0 Length 429.5 314.0 374.7 379.6 450.3 56.5 419.6 475.0 380.0 411.6 425.0 200 0 3394.0 251.0 360.0 378.5 359.2 445.0 283.0 246.0 4403.0 81.0 F. & W. Ritson.
American-Hawaiian Line.
Societa Nazionale de Nav.
Pacific Steam Navigation Co. Pacific Mail S. S. Co. Pacific Steam Navigation Co.... Tatsuma Kisen Kaisha..... United States Shipping Board... British India S. N. Co. Pacific Metals Corporation. United States Shipping Board... Pacific Steam Navigation Co.... British India Steam Nav. Co.... Luckenbach Steamship Line ..... Peruvian Line. South American S. S. Line.... Kingsley Navigation Co..... W. R. Grace & Co. United States Shipping Board... John Bowers..... Standard Oil Company Libe British .... American... British .... Chilean.... British.... American... American... Peruvian... British.... Nationality American. British... American, American American American American British. 19.39 11.53 15.23 19.24 15.55 18.60 6.20 16.55 9209965 20 Cleared for sea moH 20.33 Day 15 16 16 16 17 15 16 16 1820 222222 15.35 16.11 20.00 15.13 14.13 14.17 Completed 57 19823333 Hour transit 24133.0 55 15 Day 15 16 16 16 17 222222 7.15 35 02 10 25 43 2222223 Entered Hour Canal 15 Day 15 16 16 16 16 16 16 16 555555 222222 21 4.48 6.35 112.26 17.27 19.37 22.35 14.31 18.20 16.45 6.17 1.00 16.40 21.30 11.00 18.45 18.46 18.46 18.46 Arrived port moH Day 14 11 11 11 12 13 14 4122000 Brewster.... Ucayali..... Uncas (a).... Edgar F. Luckenbach.... Otterstad..... Western Glen.. Chile Masula..... Cacique..... Maru.... Cauca..... Yacht. American.... San Jose..... E. D. Kingsley. V. Harkness. enjamin Aysen.... Nuddea. Laura C. Hall. Palm Branch. Lake Capens British Em-Hakushika E. Guatemala Ansaldo V ভ

Submarine **3** Tramsport. 3

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Balboa Balboa Balboa San Francisco.

(Continued on page 405, column 2.)

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James Chambers & Co. S. M. Kuhnle & Son. Pacific Steam Navigation Co. United States Navy.	Denholm. States Government	ard	Atlantic & Pacific S. S. Co			Foreign and Domestic Trans. Co.	ပိ	Christian Haaland	and Dom. Line.	Green Star Line
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Lowther Castle. Arna. Cauca. S. C. No. 284.	Grangepark Margarita (d).	Laura C. Hall.	Santa Clara	Quernstad	Acadie	Xenia.	Petunia	Urubamba	Port Sydney	Centaurus

(d) Launch. (e) December 26, 1919. (f) 67,528 barrels. (g) Lumber, 1,615; iron, 110.

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(h) Motor schooner. (i) Transport. (j) Hospital ship. (k) Destroyer.

Roosevelt Memorial.

The President of the Roosevelt Memorial Association in the United States has written Governor Harding a letter expressing the appreciation of the association of the liberal response made by the Canal Zone in the recent campaign in the interest of the national memorial to Theodore Roosevelt.

The Canal Zone branch of the association collected \$9,007.28. Expenses of printing, postage, and other incidentals were \$93.53, making

the net amount remitted \$8,913.75.

Engraved certificates of membership in the Roosevelt Memorial Association are to be given to each subscriber. It is expected that they will be ready for distribution within the next few weeks.

Demand for Native Lumber in Marine Repair Work Exceeding the Supply.

The lumber industry operated by the Mechanical Division of The Panama Canal is lumbering about 100,000 feet of timber per month for use in marine and railway construction and repairs, and with the increasing demand for this material is unable with the present facilities to meet the current demand. Arrangements are being made for an extension of the logging operations. The use of the native woods has largely supplanted that of oak, basswood, and Honduran mahogany, and has greatly reduced the use of ash, hickory, cedar, and other woods which have been brought from the United States.

Of the many different species developed, almendra, amargo, and guayacan are of particular value in ship construction and repair. Almendra and guayacan are strong competitors with ironbark and tallow wood in such heavy construction as stern-posts and rudder-stocks. Amargo is notable for the excellent keels which it provides

for large ships.

A 6-foot band mill installed at Balboa shops is used in the manufacture of the lumber. The mill has a daily capacity of 5,000 feet of hardwoods and 10,000 feet of soft woods. A considerable part of the lumber is used in the green state. The board stock and selected pieces for special work requiring thoroughly dry lumber are sent to dry kilns for seasoning. The larger sizes used principally in marine and car construction are sent direct to a storage shed for air drying.

The lumber industry of the Canal, although in its infancy, has been successful in furnishing satisfactory substitutes for specially imported lumber, and is considered an important adjunct of the increasing

marine work at both terminals.

The Canal Bakery.

The increase in cost of flour recently made in the United States will not affect the price of bread at the Canal commissaries for from four to five months because the flour being used was purchased at the old prices. Bread will continue at 8 cents a loaf. An indication of the volume of work at the bakery is contained in the following summary of operations for January of this year:

operations for January of this year:	
Breadloaves	480,672
Cakespounds	18,707
Rolls, Frenchdozen	677
Rolls, dinnerdozen	1,729
Crackerspounds	3,212
Pieseach	3,180
Zwiebackpackages	274
Saratoga chipspackages	2,287
Cracker mealpounds	184
Bread crumbspounds	18

4 | 1

### Shipping Commissioner's Sale.

The Shipping Commissioner, room 305, Administration Building, Balboa Heights, will accept written blds up to noon Monday, March 15, 1920, for the purchase of portions of the personal effects belonging to the estates of Stanley C. Evans, Anton Olsen, Robert Park, Antonias Johanas Versiys, and Frank C. Wilson, deceased American seamen. Itemized lists of the articles of grad for sale will be found posted at the Canal Johanas Verslys, and Frank C. Wilson, deceased American seamen. Itemized lists of the articles offered for sale will be found posted at the Canal Zone customs offices, post offices, and clubhouses; and persons desiring to examine the effects should apply to the Shipping Commissioner's Office on any business day. Bids may be made for the entire lot of the effects of each decedent, or be limited to individual articles, and should be submitted in sealed envelopes addressed to the Shipping Commissioner, marked "Bid on effects of (insert name of seaman), deceased." The right is reserved to reject any or all bids, and no advance deposit of money is required. deposit of money is required.

## Current Net Prices on Coal, Fuel Oil, and Beef.

Coal is being supplied to steamships, including warships of all nations, delivered and trimmed in bunkers, at \$13.50 per ton of 2,240 pounds at Cristobal and \$15.50 at Balboa. For ships in transit through the Canal, which are directed to take coal at Balboa, for the convenience of The Panama Canal, \$13.50 per ton at Balboa. For ships taking less than carload lots from plants or less than 25 tons from lighters, the price is \$15 per ton at Cristobal, \$17 at Balboa.

Crude fuel oil is delivered to vessels at either Cristobal or Balboa for \$1.50 per barrel of 42 gallons. Coal is being supplied to steamships, including

gallons.

Diesel oil is not sold by The Panama Canal, but may be obtained from private concerns at approximately \$3 per barrel. Cable arrangement should be made in advance of arrival of vessel.

The following are current prices on fresh beel sold from the cold storage plant of the Canal. Prices quoted are United States currency, per pound net:

Beef hinds, 19 cents; beef fores, 14 cents; beef ribs, entire set, 20 cents; short loins, 25 cents. This beef is from Colombian cattle. laughtered on the Isthmus.

### Sale of Clapet No. 7.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10.30 a. m., March 20, 1920, and then opened, for the purchase of clapet No. 7, located at Gatun. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

### Sale of Tug "Miraflores."

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10.30 a. m., March 22, 1920, and then opened, for the purchase of the tug Miraflores. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids. right to reject any or all bids.

Additions to Commissary Stock.	
Boot and Shoe Section.	
Men's white buck Oxfords, Neolin soles, pr Women's white kid Oxfords, Dryad last,	\$7.35
Women's black satin pumps. Dainty last	8.80
with white quarter linings, pr	5.80
Dry Goods Section.	
Dictionary, Spanish-English combined, ea Blotters, desk, moss green, 19" x 24" ea Suiting:	1.65
Linen and jute composition, 27", yd Linen, cream, 46", yd	.80
Linen, cream, 36/38", yd.	.74
Linen, cream, 45", vd.	01

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OF CRISTOBAL—Continued

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		*ARRIVALS.				*DEPARTURES.	
Feb. 21	Colon	Peb. 21   Colon   Panama Railroad Steamship Line   New York and Haiti.	New York and Haiti.	Feb. 18	Linda S. (1)	Feb. 18 [Linda S. (l)   Surgeon Brothers	Colon.
				Feb. 18	San Blas	Panamanian Government.	Colon.
				:	Achilles		Norfolk.
				Feb. 19	Battonville		Bluefields.
				Feb. 19	W. L. Steed	United States Shipping Board	Puerto Lobos.
				Feb. 19	Heredia	United Fruit Co.	New Orleans via Bones.
				Peb. 20	Lake Markham	United States Shipping Board	
				Feb. 21	Mercury (m) 1	United States Army.	New York and San Just
d) Mote	(l) Motor schooner. (m) Tran	Transport.	PORT OF BALBOA.	SALBOA.			
		*ARRIVALS.				*DEPARTURES.	
Date.	Vessel.	Line.	From.	Date.	Vessel.	Line.	For.
				Feb. 17.	Lake Frenchton	Feb. 17   Lake Frenchton   United States Shipping Board   Honobulu.   Feb. 20   Lake Gebbart   United States Shipping Board   Honobulu.	Honolulu, Honolulu,
	*Other	*Other than ships passing through the Canal.		ssed on the 24-b	our basis and all hours	Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.	

### Deceased Employees.

The estates of the following deceased employees of The Panama Canal and Panama Railroad are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by-	Date of death.
Leon Manuel	1196 29887	United States	Ancon	Mun. Eng. Div	February 15, 1920.

### Locations of Patients, and Visiting Hours, at Ancon Hospital.

The following table shows the distribution of patients in the new Ancon Hospital buildings and the visiting hours for the various wards and sections:

Section and Ward.	Present number of beds.	Visiting hours.
Section "A"—White American, male: Ward No. 1, Medical, Eye and Ear. Ward No. 2, Medical, Eye and Ear. Ward No. 3, Surgical Ward No. 4, Surgical. Cells (2).	41 44 41	Tuesdays, Thursdays, and Saturdays, 2 to 4.30 p. m. Sundays and holidays, 9.30 to 11 a. m. and 2.30 to 4.30 p. m.
	172	
Section "B": White American, female White foreign, temale	23 15	Daily except Sunday, 2 to 4.30 p.m.; 6.30 to 8 p.m. Sundays and holidays, 10 to 11 a.m.; 2 to 4.30 p.m. 6.30 to 8 p.m.
Nursery Private Rooms (40). Cells (2).	46	No visitors permitted. Daily, 9.30 to 11 a.m.; 2 to 4.30 p. m.; 6.30 to 1 p. m.
a d Man	102	·
Section "C": Ward No. 9, White foreign, male Ward No. 10, Colored, eye and ear, convalescent	39	Wednesdays, Sundays, and helidays, 1.30 to 8 p. m
medical Ward No. 11, Colored Acute surgical. Ward No. 12, Colored Acute medical. Ward No. 13, Colored Convalescent surgical. Ward No. 14, Colored Convalescent surgical Cells (6). Rooms (7).	39 39 6	
a it. whi	247	
Ward No. 15. Ward No. 15. Ward No. 16. Ward No. 17, Colored children. Ward No. 18, White children. Ward No. 19, Colored fema'e medical. Ward No. 20, Colored female surgical. Rooms (6). Cells (6).	41 39 32 30 41 34 6	Wednesdays, Sundays, and holidays, 1.30 tc \$ p. m. Daily, 9.30 to 10 a. m.; 2 to 4 p. m.  Wednesdays, Sundays, and holidays, 1.30 to 3 p. m.
holation:	229	No visitors permitted.
	14 29 28 28	No amone becuireer
Total number of beds	99 849	

Emergency passes are issued only by and in the discretion of the section nurse.

## THE PANAMA CANAL RECORD

OFFICIAL PUBLICATION OF THE PANAMA CANAL,

PUBLISHED WEEKLY.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address The Panama Canal Record, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C. Entered as second-class matter February 6, 1918, at the Post Office at Cristobal, C. Z., under the Act of March 3, 1879.

Volume XIII.

Balboa Heights, C. Z., March 3, 1920.

No. 29

### CANAL WORK IN JANUARY.

BALBOA HEIGHTS, C. Z., February 25, 1920.

The Honorable, the Secretary of War,

Washington, D. C.
Sir: I have the honor to submit the following report of The Panama Canal for the month of January, 1920:

CANAL TRAFFIC.

The number of ocean-going commercial vessels passing through the Canal during the month was 238 including 1 British cruiser of 5,940 displacement tons, but excepting 25 United States Government vessels, as follows: Eight destroyers, 5 minesweepers, 4 submarines, 3 colliers, 1 supply ship, 1 transport, 1 Navy tug and barge, and 2 commercial vessels chartered by the Government. The month's traffic

is classified in a tabulation included in this report.

The net tonnage, Panama Canal measurement, of the 238 commercial vessels, excluding the British cruiser which was not measured, aggregated 765,533 tons, 162,-193 tons less than the previous month. Their registered gross tonnage was 992,024, and registered net tonnage, 632,154. The total cargo carried was 894,628 tons of 2,240 pounds, 29,851 tons less than in December. Of this month's traffic, 4,583 tons were carried as deck cargo. The total number of vessels and craft of all kinds through the Canal was 267, as compared with 281 last month, when the highest record in the history of the Canal was established. The average length of these vessels was 337 feet, average beam 47 feet, and average draft in salt water 21 feet, their average tonnage, Panama Canal net measurement, was 3,230, United States net equivalent, 2,678, registered gross, 4,186, and registered net, 2,667.

The United States coastwise trade for the month comprised 22 vessels aggregating

97,908 tons, Panama Canal net measurement, carrying 139,641 tons of cargo. from the Atlantic to the Pacific coast included 9 vessels with a total Panama Canal net tonnage of 42,190, carrying 51,295 tons of cargo. This trade from the Pacific to the Atlantic was carried in 13 vessels with a total Panama Canal net tonnage of

55,718, with 88,346 tons of cargo.

### PRINCIPAL COMMODITIES.

Bulk shipments consisting of whole cargoes of the different principal commodities included in the January traffic were:

### FROM ATLANTIC TO PACIFIC.

Commodity.	No. of cargoes.	Tons.	Total tons.	From-	То
Crude oil Crude oil Crude oil Crude oil Crude oil Case oil Case oil Case oil Case oil Case oil Case oil Case oil Case oil Pase oil Case oil Coal	1 1 1 1 1 1 2	19,117 10,000 9,000 8,800 10,300 9,000 7,285 7,000 8,625 6,536 6,774 4 909	50,719 6,536 6,774 4,909	Tampico Puerto Lobos Puerto Lobos Tampico Tampico New York Port Arthur New York New Orleans New York Now Orleans Nordolk Norfolk Tampa Santiago, Cuba	Pisagua. Antofarasta. Tocopida. Balba. Balba. San Francisco. San Francisco. Honolulu. Honolulu. Honolulu. San Francisco. Yokohama. Iquique. San Francisco. Vancouver, B. C.

### FROM PACIFIC TO ATLANTIC.

Commodity.	No. of cargoes.	Tons.	Total tons.	From—	То—
Nitrate, Nitrate, Nitrate, Nitrate, Nitrate, Nitrate, Nitrate,	1 1 1	10,000 7,500 7,350 3,550		Antofagasta Antofagasta Antofagasta Antofagasta Antofagasta Antofagasta	Antwerp. Genoa. Rotterdam. Ostend

Commodity.	No. of cargoes.	Tons.	Total tons.	From—	То—
Nitrate	1	6,150		Antofagsata	New York.
Nitrate	1	3,000		Antofagasta	Baltimore.
Nitrate	1	8,426	[	Iquique	Copenhagen.
Nitrate	1	7,021		Iquique	Hamburg.
Nitrate	1	6,200		Iquique	United Kingdom.
Nitrate	ī	4,363		Iquique	Falmouth.
Nitrate	î l	3,186		Iquique	Matanzas, Cuba.
Nitrate	î	3,356		Iquique	Cristobal (for orders).
Nitrate	2	14,372		Iquique	Savannah.
Nitrate	2	10,395		Iquique	Charleston.
Nitrate	1	3,511		Iquique	Norfolk. *
Nitrate	ĵ	3,310		Iquique	Baltimore.
Nitrate	î	8,426		Mejillones	St. Nazaire.
Nitrate	î	6,620		Mejillones	Marseilles.
Nitrate	î	6,018		Mejillones	Nantes.
Nitrate	î	7,774		Mejillones	Antwerp.
Nitrate	î	6,921		Mejillones	Ghent.
Nitrate	1	2,325		Mejillones	Norfolk.
Nitrate	î	6,700		Caleta Colosa	Alexandria, Egypt.
	i	6,109		Caleta Colosa	Cristobal (for orders)
Nitrate	1	3,140		Caleta Colosa	Wilmington, N. C.
Nitrate	1	9,300		Caleta Buena	Genoa.
Nitrate	1	7,778		Caleta Buena	Dunkirk.
Nitrate		7,252		Caleta Buena	Santander.
Nitrate	1	5,500		Caleta Buena	Alicante.
Nitrate	1				Dunkirk.
Nitrate	1	9,200		Tocopilla	
Nitrate	1	7,400		Tocopilla	Bordeaux. Cristobal (for orders)
Nitrate	- 1	8,204		Tocopilla	
Nitrate	1	2,770		Pisagua	Wilmington, N. C.
Nitrate	1	1,704		Pisagua	Mobile.
Nitrate	1	8,200		Taltal	Wilmington, N. C.
Nitrate	1	4,700		Taltal	Boston.
Nitrate	1	3,820	257,692	Junin	Baltimore.
Flour	3	24,119		Tacoma	New York.
Flour	2	16,963		Seattle	New York.
Flour	2	15,131		San Francisco	New York.
Flour	1	8,055		Astoria	New York.
Flour	1	7,100	71,368	Portland	New York.
Lumber	1	2,178		Seattle	Rotterdam.
Lumber	1	2,000		Seattle	Queenstown.
Lumber	1	2,131		Seattle	Antilles.
Lumber	1	1,417		Seattle	Nipe, Cuba.
Lumber	1	4,718		Portland	United Kingdom.
Lumber	1	1,814		Portland	Queenstown.
Lumber	1	2,632		Aberdeen	Philadelphia.
Lumber	1	1,424		Aberdeen	West Hartlepool.
Lumber	1	2,981		Port Blakely	Antwerp.
Lumber	1	1,968		Victoria	Queenstown.
Lumber	1 1	872		Port Angeles	Sagua la Grande.

### LATIN-AMERICAN TRAFFIC.

Commercial vessels passing through the Canal en route to the west coast of Central and South America were classified as follows:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
United States British Norwegian Spanish Chilean Japanese Peruvian German French Italian Danish	35 17 7 4 4 3 3 2 1	127,368 48,544 24,024 13,014 10,553 17,513 12,682 954 5,818 5,255 3,102	79,316 28,334 15,113 8,182 6,294 11,870 7,041 193 3,631 3,226 1,963	94,031 35,630 18,885 9,399 8,619 13,315 8,312 332 4,166 3,756 2,389	Tons. 58,284 27,722 12,587 2,724 1,915 300 363 4,225
Total	78	268,827	165,163	198,834	108,120

Of the 78 vessels above, 36 were in ballast, 31 from United States ports, 1 from England, 1 from Spain, 1 from Germany, 1 from Porto Rico, and 1 from the Atlantic terminus of the Canal. Of the remaining 42 laden ships, 11 were from the United States with 31,505 tons of general cargo, 5 from Mexican ports with 46,917 tons of fuel oil, 19 from the Atlantic terminus of the Canal with 12,436 tons of general cargo, 4 from England with 12,589 tons, 1 from Scotland with 4,010 tons, 1 from France with 300 tons, 1 from Port Limon, Costa Rica, with 363 tons, all general

cargo. With the exception of 1 vessel of 692 tons net, Panama Canal measurement, carrying 1,074 tons of cargo, the 78 ships were all en route to the west coast of South America, the one exception being bound for Champerico, Guatemala.

This trade from the west coast of Central and South America for the month was

as follows:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
United States British Japanese Italian Peruvian Spanish Chilean Dutch French Brazilian Norwegian	3 4 3 2 1	138,076 71,987 28,532 23,327 12,468 16,050 9,080 10,834 6,872 6,692 5,254	86,208 42,018 18,405 14,354 6,677 10,584 5,505 6,892 4,245 4,126 3,246	105,003 52,611 21,039 17,356 7,845 12,448 8,079 9,121 6,576 6,294 4,755	Tons. 154,591 69,098 37,998 27,973 6,571 22,411 5,547 13,950 9,045 8,916 8,426
Total	79	329,172	202,260	251,117	364,526

Four of the above 79 vessels were in ballast, the remainder all carried cargo. Twenty-three were enroute to United States ports with 97,888 tons of cargo, 2 of these being in ballast, the cargo consisting of 69,427 tons of nitrate and 28,461 tons of general commodities. Nine ships were en route to Great Britain with 47,515 tons of cargo, 2 with 10,563 tons of nitrate and 7 with 36,952 tons of general cargo. Eighteen ships laden entirely with nitrate were destined to the following countries: Eight to France with 63,403 tons, 4 to Belgium with 28,245 tons, 2 to Spain with 12,752 tons, 1 to Egypt with 6,700 tons, 1 to Denmark with 8,426 tons, 1 to Germany with 7,021 tons, and 1 to Cuba with 3,186 tons. Five vessels with 18,673 tons of general cargo and 16,800 tons of nitrate were en route to Italy, 2 to the Netherlands with 6,600 tons of general cargo and 7,350 tons of nitrate, 17 with 22,298 tons of general cargo and 3 with 17,669 tons of nitrate were routed to Cristobal, the three nitrate-laden vessels to be ordered to ultimate destination from this point.

Sixty-six vessels controlled by the United States Shipping Board passed through the Canal this month, these combined a total Panama Canal net tonnage of 214,444 and carried 266,102 tons of carge. Thirty-three were southbound with an aggregate net tonnage of 101,692, carrying 94,432 tons of cargo. The same number was northbound with an aggregate net tonnage of 112,752, carrying 171,670 tons of cargo, the

greater part of which was nitrate.

### PRINCIPAL TRADE ROUTES.

The month's traffic was distributed according to the principal trade routes as follows:

		Total vesse	els.		ssels in allast.
	Ves- sels.	Panama Canal net tonnage.	Cargo.	Ves- sels.	Panama Canal net tonnage.
Atlantic to Pacific.  United States to west coast of South America.  Cristobal to west coast of South America.  United States coastwise.  Europe to west coast of South America.  United States to Honolulu  United States to Honolulu  United States to Far East.  Mexico to west coast of South America.  United States to Australia and New Zealand  Europe to west coast United States.  Cuba to west coast of United States.  Cuba to west coast of United States.  Cuba to west coast of South America.  Costa Rica to west coast of South America.  Costa Rica to west coast of South America.  Costa Canada (British Columbia)  Europe to Tahiti.  Cristobal to west coast of United States.  Cristobal to west coast of United States.	7 5 4 2 2 1 1 1	107,343 27,092 42,190 28,235 32,708 25,999 28,337 23,188 9,329 7,141 5,680 3,277 3,756 2,933 728 2,163	Tons. 31,515 11,362 51,295 16,895 52,130 47,907 46,917 22,664 3,730 10,567 10,300 1,873 1,000 1,873 1,074		76,095 101 5,741 8,695
*Miscellaneous Total	113	350.973	314.510	40	94,091

^{•&}quot;Miscellaneous" includes 1 tug, the St. Boswells, British registry, of 102 tons, Panama Canal net measurement, en route from Kingston to Chile; the yacht Ajaz, American registry, of 80 tons, same measurement, bound from Kingston to Samoa; and the British cruiser Yarmouth, the latter having a displacement tonnage of 5,940.

		Total vess	els.		essels in
	Veš- sels.	Panama Canal net tonnage.	Cargo.	Ves- sels.	Panama Canal net tonnage.
Pacific to Atlantic.			Tons.		
West coast of South America to Europe. West coast of South America to Cristobal. West coast of South America to east coast of United States United States coastwise. West coast of United States to Europe Far East to east coast United States to Europe West coast of South America to Mexico. West coast of South America to Mexico. West coast of United States to Cristobal. Canada (British Columbia) to Europe. West coast of United States to Cuba. Australia and New Zealand to east coast of United States west coast of United States to Europe. West coast of United States to Europe. West coast of United States to Europe. West coast of United States to Europe. West coast of United States to Europe. West coast of United States to Mexico West coast of South America to Egypt. Falkiand Islands to England. West coast of Central America to Cristobal.	6 3 3 3 2 1 1	135,864 35,199 54,741 55,718 35,336 29,231 18,087 10,923 6,215 2,037 2,404 6,958 5,621 5,458 4,097 3,980 1,999 692	210,359 39,928 97,894 88,346 50,586 42,283 17,261 3,186 2,289 7,010 6,700 6,426 2,131 39	1 1	9,084 5,621 5,458
Total	125	414,560	580,118	5	20,610

### SERVICES TO CANAL SHIPPING.

Repairs were made on 166 vessels during the month, including both those entering the ports only and those passing through the Canal, 103 at Cristobal and 63 at Balboa Thirteen vessels were drydocked, 2 at Cristobal and 11 at Balboa. Coal sales totaled 39,181 tons to 157 vessels, 4,920 tons to 20 vessels at Balboa, and 34,261 tons to 137 vessels at Cristobal. Twenty-two ships were supplied with fuel oil from Panama Canal tanks, 13 at Cristobal with 42,085 barrels, and 9 at Balboa with 14,850 barrels. There were 367 vessels supplied with 12,164,458 gallons of water, 230 at Cristobal with 9,097,708 gallons, and 137 at Balboa with 3,066,750 gallons. Sales of commissary supplies to commercial ships other than those of the Panama Railroad Steamship Line, aggregated \$131,515.56, including \$4,866.69 for laundry service at Cristobal and Ancon laundries. Charges for tug service to vessels using the Canal and the terminal ports amounted to \$32,550, of which \$16,262.50 was collected at Cristobal and \$16,287.50 at Balboa.

### STATEMENT OF OPERATIONS.

Details of the business transacted at the Atlantic and Pacific terminals of the Canal are shown in the following tabulation:

Item.	Cristobal.	Balboa.	Total.
Commercial ships making transit of Canal  Net tonnage of commercial ships, Panama Canal measurement.  United States equivalent net tonnage of commercial ships. Registered gross tonnage of commercial ships. Registered net tonnage of commercial ships. Cargo through the Canal in commercial ships. Cargo through the Canal in commercial ships, tons of 2,240 pounds.  Deck load cargo, included in above.	350,973 289,674	125 414,560 346,616 532,393 340,084 580,118 3,406	238 765,533 636,290 992,024 632,154 894,628 4,583
Nationality of commercial ships through Canal: British Brazilian Chilean Danish Dutch French	4 1	27 1 3 2 7	56 1 7 1 2 10
German Italian Japanese. Norwegian Panaman Peruvian Russian	2 1 7 8	4 7 2 1 3	2 5 14 10 1
Spanish United States. Total	50	125	8 114 238

Item.	Cristobal.	Balboa.	Total.
Panama Canal net tonnage of commercial ships through the Canal:			
British Brazilian	95,308	94,416 6,294	189,724 6,294
Chilean Danish	8,619 2,389	8,078	16,697 2,389
Dutch		9,121	9,121
French. German	7,827 332	13,359	21,186
Italian	3,756	17,356	21,112
Japanese, Norwegian	32,385 22,771	30,911 5,595	63,296 28,366
Panaman Peruyjan	8,312	930 7,845	930 16,157
Russian	5.144		5,144
Spanish. United States.	9,399 154,731	12,448 208,207	21,847 362,938
Total	350,973	414,560	765,533
Total.  United States equivalent net tonnage of commercial ships through the Canal:			
British	75,748	75,869	151,617
Brazilian Chilean	5,338	5,436 4,928	5,436 10,266
Danish	1,970		1,970
DutchFrench	6,587	6,928 12,903	6,928 19,490
German Italian	407 2,971	14,410	407 17.381
Japanese	27,999	28,235	17,381 56,234 22,399
Norwegian. Panaman.	18,253	4,146 940	940
Peruvian Russjan	5,703 4,740	4,655	10,358 4,740
Spanish	7,973	11,645	19,618
United States.	131,985	176,521	308,506
Total	289,674	346,616	636,290
British Brazilian	121,425	119,487 6,692	240,912 6,692
Chilean	10,553	9,080	19,633
Danish	3,102	10,834	3,102 10,834
French	10,543 954	18,181	10,834 28,724 954
German Italian	5,255	23,327	28,582
Japanese	42,244 28,918	23,327 41,294 6,230	83,538 35,148
Panaman		1,141	1,141 25,150
Peruvian Russian	12,682 7,464 13,014	12,468	7,464 29,064
Spanish. United States.	13,014 203,477	16,050 267,609	29,064 471,086
	459,631	532,393	992,024
Total			
British. Brazilian	76,145	72,583 4,126	148,728 4,126
Chilean. Danish	6,294 1,963	5,505	11,799
Dutch		6,892 11,235	4,126 11,799 1,963 6,892 17,864
French. German	6,629 193	(	193
Italian Japanese	3,226 28,026	14,354 26,256 4,094	17,580
Norwegian	18,167	4,094	54,282 22,261
Panaman Peruvian	7.041	916 6,677	916 13,718
Russian	7,041 4,779 8,182	10,584	4,779 18,766
Spanish United States	131,425	176,862	308,287
Total	292,070	340,084	632,154
Total.  Cargo carried by ships of various nationalities: British.	95,479		
Brazilian		116,377 8,916 5,547	8,916
Chilean Danish	2,724 4,225	1	8,271 4,225
Dutch. French.	6,209	13,950 17,086	211,856 8,916 8,271 4,22 <b>5</b> 13,950 23,295
German	5		U
	363	21,913	28,336
Italian Japanese. Norwegian	29,929 14,287	27,973 52,718 9,850	82,647 24,137

Item.	Cristobal.	Balboa.	Total.
Cargo carried by ships of various nationalities—Continued:			
Peruvian Russian	1,915 12,147	6,571	8,486 12,147
Spanish	147,227	22,411 297,847	22,411 445,074
Total	314,510	580,118	894,628
Vessels passing through the Canal free of tolls:	8		8
U. S. Navy destroyers. U. S. Navy tug and barge. U. S. Navy mine sweepers.	1 5		
U. S. Navy colliers. U. S. Navy submarines.	1 4	2	3
U. S. Navy supply ship	1 1		1 5 3 4 1
U. S. Army transport. Merchant ships with coal, chartcred by the U. S. Government	2		2
Total	23	2 3	25 4
Launches. Net tonnage of launches, Panama Canal measurement.	3 136	11 127	14 263
Total ocean-going ships transiting Canal Total vessels and craft transiting the Canal	137 25,943	130	267 26,053
Cargo on which no tolls were charged tons Commercial ships through Canal in ballast Net tonnage of above, Panama Canal measurement	40	110	45
	94,091 40	20,610	114,701 45
Net tonnage of above, Panama Canal measurement	94,091	20,610	114,701
Net tonnage of above, Panama Canal measurement.  Motor ships through the Canal.  Net tonnage of above, Panama Canal measurement  Sailing ships through the Canal.  Net tonnage of above, Panama Canal measurement.	4,024	6,507	10,531
Net tonnage of above, Panama Canal measurement.  Yachts through the Canal.  Net tonnage of above, Panama Canal measurement.	1	3,024	3,024
Tolls levied on laden ships through the Canal	\$263,786.15	\$410,360.40	\$674,146.55
Tolls levied on ships in ballast. Tolls levied on launches	\$77,758.53 \$3.60	\$14,849.61. \$13.20	\$92,608.14 \$16.80
Total tolls levied. Total ships entering port, including Canal transit.	\$341,548.28	\$425,223.21	\$766,771.49
Total ships entering port, including Canal transit.  Total ships clearing port, including Canal transit.	316 310	273 269	589 579
Total ships handled	626	542	1,168
Total ships handled.  Net registered tonnage of vessels entering port.  Net registered tonnage of vessels clearing port.	920,162 894,386	701,751 707,014	1,621,913 1,601,400
Total for vessels entering and clearing.	1,814,548	1,408,765	3,223,313
Registered gross tonnage of vessels entering port	1,363,331 1,322,744	1,088,061 1,094,056	2,451,392 2,416,800
Total registered gross tonnage of vessels entering and clearing	2,686,075	2,182,117	4,868,192
Vessels entering port, but not passing through the Canal	66	9	75
Net tonnage of above	192,409 295,425	18,910 30,965	211,319 326,390
Gross tonnage of above. Vessels clearing port, but not passing through the Canal. Net tonnage of above.	174.750	21,312	73 196,062
Gross tonnage of above.  Vessels passing through Canal, and handling passengers or cargo at port	269,849	34,747	304,596
entered Net tonnage of above.	88,863	47 90,554	89 179,417
Gross tonnage of above.  Vessels passing through Canal, and handling passengers or cargo at port	148,946	153,924	302,870
cleared	37 79,446	96,097	86 175,543
Gross tonnage of above.  Transit cargo arriving tons.	131,336 926,173	162,287 908,678	293,623 1,834,851
Transit cargo cleared tons.	934,327	920,662	1,854,989
Total transit eargo handled. tons.  Local cargo arriving tons.	1,860,500 117,595	1,829,340 16,955	3,689,840 134,550
Local cargo shippedtons	3,634	2,446	6,080
Total local cargo handledtons	121,229	19,401	140,630
Total local and transit cargo arrivingtons.	1,043,768 937,961	925,633 923,108	1,969,401 1,861,069
Total local and transit cargo clearedtons. Cargo received by Receiving and Forwarding Agency of P. R. Rtons. Cargo dispatched by Receiving and Forwarding Agency of P. R. Rtons	74,936 58,724	3,544 3,666	78,480 62,390
Cargo rehandled by Receiving and Forwarding Agency of P. R. R tons  Total cargo handled by Receiving and Forwarding Agency of P. R. R tons	3,142	2,234	5,376
P. R. Rtons	136,802 74,874	9,444 3,545	146,246 78,419
Cargo stevedored, included in above	74,874 123 32,961	3,343 18 4,870	141
Coal supplied above vessels tons.  Panama Railroad vessels supplied with bunker coal.	7		37,831 7 1,389
Coal supplied above vesselstons.	1,009		1,009

Item.	Cristobal.	Balboa.	Total.
U. S. Army vessels supplied with coal.	4 137	2 50	6 187
Coal supplied above vessels	134 34,487	20 4,920	154 39,407
Cool amphied Panama Railroad departments tons	657 117	471	1,128 117
Coal supplied Army, excepting vessels, tons Coal supplied The Panama Canal, tons Coal supplied individuals and companies, tons	1,818 321	721	2,539 321
Total coal furnished from Panama Railroad depositstons.	37,400 63,810	6,112	43,512 63,810
Coal received during January tons Coal on band, February 1, 1920 tons Coal on hand, January 1, 1920 tons Coal, U. S. Nay Account. Coal (White Head of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of the Coal of	49,172 22,762	19,763 25,875	68,935 48,637
	3,312	1	3,313
Coal received during January tons Coal on hand, February 1, 1920 tons Coal on hand, January 1, 1920 tons Commercial vessels supplied with fuel oil from Panama Canal tanks.	12,465 30,883	2,391 17,947	14,856 48,830
Coal on hand, January 1, 1920	21,730 13 42,085	15,557 9	37,287 22 56,935
Fuel oil sold to above vessels	9,624 205	14,850	9,624 880
Fuel oil issued to U. S. Army barrels.  Fuel oil issued to Canal departments	8,847 6,362	536 18,416	9,383 24,808
Total fuel oil furnished from Panama Canal tanks barrels	67,123	34,507	101,630
Fuel oil received during month barrels.  Fuel oil on hand, February 1, 1920 barrels.	19,890	64.923 89,723	64,923 109,613
Fuel oil on hand January 1 1000	1 87 013	59,306 25,161	146,319 331,427
Other oil pumped		1,396	27 1,396
Vessels supplied with water.  Water sold to ships. gals.	9,097,708	3,066,750 11	367 12,164,458 13
Vessels dry docked Commercial vessels furnished commissary supplies. Panama Railroad vessels furnished commissary supplies.	205	92	297 12
Other U. S. Government vessels furnished commissary supplies	27	21	48
Total vessels furnished commissary supplies.  Commissary sales to commercial vessels:	243	114	357
Iee Wholesale groceries	\$2,389.59 27,272.94 65,579.36	\$600.48 3,440.78	\$2,990.07 30,713.72 84,964.68
Wholesale cold storage. Laundry Miscellaneous	3,804.68 5,340 99	19,385.32 1,062.01 2,639.41	4,866.69 7,980.40
		\$27,128.00	\$131,515.56
Total. Commissary sales to Panama Railroad vessels. Ico.	\$105.90	\$9.00	\$114.90
Wholesale groceries. Wholesale cold storage.	1,369.42 3,941.08	487.55 1,135.27	1,856.97 5,076.35
Laundry. Miscellaneous.	1,204.55 218.54	4.19	1,204.55 222.73
Total	\$6,839.49	\$1,636.01	\$8,475.50
Wholesale groceries	\$147.10 2,283.75	\$105.24 2,488.69	\$252.34 4,772.44
Wholesale cold storage	12,452.70 712.76	4,908.38 107.57	17,361.08 820.33
Miscellaneous	\$16,238.73	\$7,763.72	796.26 \$24.002.45
Total commissary sales to all vessels	\$127,465.78	\$36,527.73	\$163,993.51
Passengers arriving, including transit passengers: First eabin. Other than first cabin.	3,122 1,542	1,469 900	4,591 2,442
Total	4,664	2,369	7,033
Prasengers departing, including transit passengers: First cabin. Other than first cabin.	2,805 1,149	1,335 853	4,140 2,002
Total Total movement of passengers.	3,954 8,618	2,188 4,557	6,142 13,175
Passengers disembarking: First cabin Other than first cabin	1,714 1,254	293 147	2,007 1,401
Total	2,968	440	3,408
Passengers embarking: First cabin Other than first cabin	- 1,324 1,149	159 100	1,483 1,249
Total	2,473	259	2,732

Item.	Cristobal.	Balboa.	Total.
Services to American seamen:			
Seamen shipped	311	132	443
Seamen paid off	260	93	353
Seamen deserted		12	19
Seamen deceased	3	1	4
Seamen lodged, subsisted, and repatriated	52	44	96
Wages of American scamen:			
Total amount earned.	\$21,542.88	\$11,243.29	\$32,786.17
Deductions approved by Deputy Shipping Commissioners	84,467.43	\$2,689.96	\$7,157.39
0-1	017 077 45	20 750 00	202 200 50
Balance due seamen	\$17,075.45	\$8,553.33	\$25,628.78
Paid to seamen		\$4,401.39	\$9,944.01
Received on deposit for seamen	\$11,532.83	* \$5,212.94	\$16.745.77
	2		
Crews paid off	2		3
Shipping articles written	26	1	1
Bills of health issued	170	146	34
PILLS OF BEARING TOPICAL	170	140 '	310

^{*}Includes \$1,061 immigration deposit.

### LOCK OPERATION.

Lockages of commercial vessels during January were as follows:

	Number of lockages		Number of vassels.			
	North.	South.	Total.	North.	South.	Total.
Gatun. Pedro Miguel. :	119	107	221 226 201	125	115	240 240 240

All lockages, including Army and Navy vessels, those of the Panama Railroad and The Panama Canal, are included in the following summary of lockages for the month:

Lockages.	Gatun.	Pedro Miguel.	Miraflores.
Commercial lockages. Noncommercial, United States Army and Navy Canal equipment.	221 9 11	226 14 25	201 13 19
TotalVeasels:	241	265	233
Commercial vessels.  Noncommercial United States Army and Navy  Canal equipment and launches.	240 33 36	240 32 54	240 31 45
Total	309	326	316

The total consumption of water for all lockages was 1,890,950,000 cubic feet. The consumption by locks was as follows:

	Gatun.	Pedro Miguel.	Muraflores.
Lockage. Leakage Maintenance	20,000,000	Uubic feet. 884,930,000 33,540,000	Cubic feet. 740,650,000 15,000,000 13,500,000
Total	1,026,020,000	918,470,000	769,150,000

### METEOROLOGY.

This was the driest January of record since the American occupation, being slightly drier than the corresponding month of 1912, previously the driest January on record. Totals ranged from a trace of rain at Balboa and Balboa Heights to 2.52 inches at Porto Bello, the greatest precipitation of any one day was 0.47 inch at Porto Bello on the 11th. The estimated rainfall over Gatun Lake watershed was 0.69 inch, compared with a 10-year mean of 1.73 inches, over the Chagres River Basin above Alhajuela it was 1.15 inches, compared with a 19-year mean of 3.08 inches. Gatun Lake watershed total yield was 34 per cent below the 10-year mean or 1,714 c. f. s. against a mean of 2,602 c. f. s. The maximum January total yield since the existence of Gatun Lake was 3,827 c. f. s. in 1918, and the minimum total yield was 1,371 c. f. s. in 1912. Gatun Lake varied from a maximum elevation of 85.94 feet on the 31st.

Four seismic disturbances were recorded during the month, on the 3d, 9th, 26th, and 30th. That of the 26th, though slight as were the others, was the most pronounced shock recorded during the month, the indicated distance of its epicenter was 48 miles and the movement had its probable origin to the west or southwest of the

Balboa Heights station.

### CLECTRICAL DIVISION.

Gatun hydroelectric station—The gross output of this station for January was 5,894,-400 KWH. on a computed water consumption of 4,227,120,000 cubic feet. A shutdown of 12 minutes occurred on the 15th due to trouble on the high tension system, there were no other interruptions to service at this station. The testing equipment was erected and an efficiency test was run on Unit No. 3.

Miraflores steam plant—This plant consumed 176,180 KWH. in excess of its output during the month, with generators floating on line for stand-by service. The oil con-

sumption was 2,035 barrels.

Total power output—The total gross output of both plants was 5,894,400 KWH, the total power distributed to consumers was 5,006,940 KWH. The total loss of power plant auxiliaries, transmission, transformation, and operation of steam plant generators for stand-by service was 887,560 KWH, or 15.06 per cent of the gross output.

Transmission line—Minor interruptions to service occurred in the district served by the Gamboa substation and in the Balboa district. Trouble of an unknown nature caused a bad drop in system voltage on the 11th in the Gamboa substation district, and in the Balboa district was interrupted on the 18th for 38 minutes to permit cleaning the high tension bus sectionalizing switches.

Substations—No service interruptions occurred at any of the substations except at Miraflores. Feeder D and feeders 15, 16, and 17 were out for a few moments each

during the month at Miraflores.

Marine work-In addition to its usual repair and maintenance work this division installed and repaired various items of electrical equipment on 90 vessels during the

month 44 at Cristobal and 46 at Balboa.

Construction work—Miscellaneous items of construction work were under way during the month at Gatun and Miraflores substations, Gatun hydroelectric plant, Mount Hope cold storage plant, Pier No. 6, Cristobal, Coco Solo, Reclamation building at the scrap yard, Balboa, Fort Davis, and Miraflores Army post. There were 386 work orders issued for work to be performed by the different sections of the Electrical Division during January.

### SHOP, FOUNDRY, AND DRY DOCK WORK.

All steel work has been completed on the steamship Cristobal and most of the riveting done. A considerable amount of wood work on the decks remained uncompleted at the end of the month. Work within the engine and boiler room spaces was approximately 98 per cent completed, and that in the cargo spaces about 90 per cent completed. A large amount of work remained to be done in the passenger and crew spaces,

principally woodwork, pipe fitting, and plumbing.

The installation of oil-burning apparatus on the steamship Acajutla was well advanced, the steel work for the tanks was fabricated and erected and riveting begun. Repairs to the motorship Ansaldo San Giorgio I were completed and satisfactory dock trial of the engines run. This ship is driven by a pair of Diesel engines of about 300 horsepower. The vessel arrived at the Balboa shops about the middle of November with the bearings throughout both engines badly worn and out of line. Request was at first made for only a small amount of the necessary work, but before the engines could be made to run satisfactorily, it became necessary to refit and reline the engines throughout.

The overhauling of the steamship Culebra at Cristobal shops, prior to its return to the Dredging Civision, was continued during the month, but very little could be done on it. The renewal of the greater portion of the planking, framing, and stern log of the tug San Juan was completed on January 22. The installation of a new stem and forefoot on the steamship *Boxley* was nearly completed, and the repairing of the boiler of the steamship *Battonville*, 55 per cent completed. Salvage operations were started on the raising of the steamship Marne. The tug San Juan and steamship Boxley

were in dry dock at Cristobal for the greater part of the month.

There were 226 special individual and company job orders issued at Cristobal during the month, three of which were for work on submarines and nine for work on ouring the month, three of which were for work on submarines and nine for work on other naval vessels, of the remaining 214, 98 covered repairs to ships making the port or in transit of the Canal, exclusive of Panama Railroad vessels. The following vessels were at the Cristobal shops for repairs during January: U. S. S. Astoria, Babbitt, Oriole, Jacob Jones, Graham, Ramapo, U. S. A. T. Princess Matoika, steamships Achilles, Agaresta, Allianca, Ashland County, Ancon, Astmacho III, August, Aysen, Ayuruoca, Ba'boa, Barrington, Battonville, Bellflower, Beliota, Bonnafon, Boxley, British Isles, Brookland, C-34, C-41, C-42, C-44, C-47, C-48, Calamares, Cansumsett, Chile, City of Para, Cockaponset, Cowanshannock, Cowboy, Culebra, Colon, Cote Blanche, Diana, Ebro, Effingham, Fasset, Fert Sill, Frontenac, General Gorgas, General Goethals, General Ernst, Hattchie, Henry T. Scott, Hiveizan Marn Gorgas, General Goethals, General Ernst, Hattchie, Henry T. Scott, Hiyeizan Maru,

Huallaga, Kentuckian, Lake Catherine, Lake Gebhart, Lake Fibre, Lake Stobi, La Salle, Lake Frenchton, Laura C. Hell, Manavi, Mantaro, Montmagny, Margaret, Marne, Mystic, Mecklenburg, Newport, Nishwaha, Omsk, Panama, Parismina, Peru, Puerto Rico, Point Adams, Palena, Stuyvesant, Saverne, St. Louis, Salmon, Sardegna, St. Amarin, Santa Marta, Sacramento, Tallac, Tulsa, Ulysses, Ucayali, Urubamba, Vancewer, Virginian, West Coyote, West Vaca, Winjah, Yosemite. schooners John D. Wells, and Polawan, tugs Engineer, San Juan, and Tavernilla, ketch Ajax.

The Balboa shops had the following vessels for miscellaneous repairs during January: U.S.S. Aulick, Babbitt, Gillis, R-21, R-22, R-24, R-25, R-26, R-27, sub-chaser No. 280, Willis, minesweeper Avocat, mineplanter Thrush, cableship Guardian, steamships 280, Willis, Minesweeper Avocai, Mineplanter Inrush, cableship Guardian, steamships Acijulla, Agremont, Ansaldo I, Andrew Jackson, Ardmore, Almirante, Ansaldo San Giorgio I, Ansaldo San Giorgio II, Basis, Bradford, Brookland, C-32, Cristobal, Caddo, Cowee, Cawker, Caribbean, Coolcha, Coulee, Chiriqui, Cethana, Dakstan, Diablo, Erydamas, Gaffney, General Pau, George W. Elder, Houma, Jadden, Lake Elkwater, Lake Buckeye, Lake Fabyan, Lake Filbert, Liberty. Mendora, National Bridge, Peru, Petunia, and Ucayali, tender Perico, tugs Einigkeit, Schelie, and La Boca, cruiser Lima, ketch Ajax, barge No. 131, dredges No. 86 and Paraiso. Of these the following were in dry dock at Balboa: Steamships Acajulla and Lake Fabyan. submarines R-22, R-25, R-21, and R-26, dredges No. 86 and Paraise, tender Perico, tug La Boca.

The output of the Mechanical Division in patterns made and foundry production

for the month is shown as follows:

	January.		December.	
Iron Steel	Patterns 46 11 67	Pounds. 95,914 37,571 24,720	Patterns. 57   14   43	Pounds 129,358 26,114 13,356

The ordinary repair and inspection work of this division for January included the following items:

Cars repaired	
Passenger coaches packed, cleaned, oiled, and inspected	
Freight cars repacked	
Locomotives hostled	
Cranes hostled. 2. Locomotives ridden. 2.	30
Locomotives inspected.	
Crews instructed in handling locomotives.	
Crews instructed in handling locomotives	13

### BUILDING CONSTRUCTION.

The Building Division had the following items of construction under way during

January, with the progress indicated:	Per cen
Tuberculosis ward, Corozal Hospital	
Moving 3 type-18 houses from Las Cascadas to Balboa	
Moving 7 type-15 houses and 1 type-7 house from Las Cascadas to Pedro Miguel:	
3 houses	1
3 houses.	
2 houses	
Installation of third unit, Gavilan Island incinerator	
Colon stables.	
Silver townsite, Mount Hope:	
Commissary	
2 houses	
8 houses	
Oil storage shed. Balboa store	
Six-stall garage near Balboa school.	
Six-stall garage near old power plant	
Conversion of Chinese detention camp into married quarters	
Play shed, Pedro Miguel	
Moving old police station, Las Cascadas to Gamboa	
Moving bachelor quarters and old pay office, Cristobal	
Converting old section D, Ancon Hospital, into married quarters	
Converting old section D, Ancon Hospital, into married quarters	
Converting old ward 17, Ancon Hospital, into married quarters	
Converting old ward 17, Ancon Hospital, into married quarters	
Converting old ward 19, Ancon Hospital, into married quarters	
* Started during month.	

Work was begun and the excavation and foundations completed during the month for the new Cristobal incinerator, the construction of the stack under the supervision of the contractor's representative was commenced. Various items of maintenance and repair work, including painting, the installation of plumbing, and other miscellaneous repairs to Panama Canal and Panama Railroad buildings were also in progress. A separate report is submitted covering the work of the Building Division performed for the Army and Navy.

### DREDGING DIVISION.

The total excavation by dredges during January was 253,602 cubic yards, as follows:

Cubic yards.		ed as—   Rock.	Character of work.	Stations.	Equipment.
(a) 22,500 (a) 50,500	20,300 10,000	2,200 40,500	Maintenance	Gaillard Cut. 1811-50 to 1823-00 1893-50 to 1910-00 W Pacific Entrance.	Gamboa. Gamboa.
(b) 40,000 (b) 44,000 (b) 32,100	40,000 44,000 32,100		Maintenance Maintenance Maintenance	2166-00 to 2194-50 W. 2198-00 to 2214-50 E. 2148-00 to 2137-00 W. Balboa Inner Harbor.	No. 86. No. 84. No. 83.
(c) 29,600 (c) 17,500	29,600 17,500 Gravel.		Maintenance Construction	Balboa inner harborBalboa inner harbor	Cascadas.
(d) 14,552	14,552 Sand.		Aux. constr'n	Chagres River gravel bed	Marmot.
(d) 1,050	1,050 Mud.		Aux. constr'n	Chagres River gravel bed	Marmot.
(d) 1,800 253,602	$\frac{1,800}{210,902}$	42,700	Aux. constr'n Total for month	Uncovering gravel beds	Marmot.

(a) Gaillard Cut. (b) Pacific entrance. (c) Balboa inner harbor. (d) Chagres River.

The excavated material was dumped as below:

Gatun Lake north of Gamboa. San Juan dump.	Cu. yds. 73,000 84,000
Pacific entrance: Flats west of Canal	
Total	236 200

East Culebra slide showed no unusual movement during the month. Cucaracha slide had no general movement, though there was a small surface movement near the top of the slide, which brought no additional material into the Canal area. At the barge repair slide there was a small surface movement continuous throughout the month.

The following excavation remained to be done on February 1:

Location.	Earth.	Rock.	Total.
Gaillard Cut.	Cu. yds.	Cu. yds. 25,000	Cu. yds. 25,000
Pacific entrance	50,500	86,900	137,400
Total Canal prism. Cristobal coaling station.	50,500	111,900 2,100	162,400 2,100
Balhoa inner harbor	127.500	2,100 13,400	140,900
Total, ocean to ocean	178,000	127,400	305,400

### MUNICIPAL ENGINEERING DIVISION.

The following items of construction work were under way in the Northern District during January, with the progress on February 1 as shown:

Roads, water and sewers, ten 12-family quarters, Mount Hope: Water lines	
Sewer lines. Roads and sidewalks.	
Grading, fill, and general municipal work for new silver townsite, Mount Hope: Fill and grading.	100
Water lines. Streets and roads.	
Sewers, sanitary	92
Sewers, storm	
Municipal work, Block 54, Colon: Grading	20
Roads Concreting railroad tracks	
Water lines.	99
Sanitary sewers. Storm sewers.	
Municipal work, area between 6th and 9th and "G" and "K" streets, Colon: Roads.	5
Alleyways Grading and rolling	
Water lines.	10
Sanitary sewers* Not started.	10

	Per cent completed.
Grading	5
Roads	2
Water lines	
Sanitary sewers.	20
Construction modified Imhoff tank, Mindi farm	50
Construction tennis court, Cristobal.	80
Concrete roadway to substation, Gatun.	100

Construction work in the Southern District reached the following status on February 1:

	Per c	
	compl	eted.
Municipal work for 3 type-18 houses, Balboa.		60
Industrial track between buildings 8 and 14, Balboa shops.		99
Storm sewer, Javillo fil.		90
Sewer, Northern Avenue to beach		95
Box sewer, Panama Pailroad yards		5
Municipal work for 8 houses, Pedro Miguel		97
Sewer and water lines for C. & S. A. Tel. Company, Balboa		90
Sidewalks, New Corozal, Balboa		100
Road from lumber shed to Diablo Hill		5

No work was performed on either the municipal construction for the three type-18 houses at Balboa, the industrial track between buildings 8 and 14 at Balboa shops, or some few other items under way for the Army. Authority was received for the demolition of Caledonia bridge in Panama City and the construction of a grade crossing to replace it. Work on this was started toward the end of the month.

The total output of all pumping stations for the month was 918,711,950 gallons, and that of the three filtration plants, 572,013,000 gallons. Panama City was furnished with 83,665,000 gallons, and Colon with 46,558,825 gallons. Sales of water to vessels amounted to 12,164,458 gallons.

The Gavilan Island incinerator was operated as usual during the month, consuming 2,883 tons of garbage and 32 dead animals:

WORKING FORCE.

Effective January 21, 1920.

Department or Division.	Gold.	Silver.	Total.
Operation and Maintenance:			
Office	36	57	93
Building Division	387	1,835	2,222
Electrical Division	254	350	604
Municipal Engineering Division.	112	1,678	1,790
Lock Operation.	165	643	808
Dredging Division	147	917	1,064
Mechanical Division	998	1,994	2.992
Marine Division	136	438	574
Fortifications	51	209	260
Total	2,286	8,121	10,407
Supply Department:			
Quartermaster	156	1,828	1,984
Subsistence	30	398	425
Commissary	238	1,657	1,895
Cattle Industry—Plantations.	31	1,368	1,399
Hotel Washington:	4	100	104
Total	459	5,351	5,810
Accounting	241	11	252
Health	238	924	1,162
Executive	549	284	833
Total	1,028	1,219	2,247
Panama Railroad:	7.		cor
Superintendent	74 131	549 199	623 330
Transportation	131 82		2.291
Receiving and Forwarding Agent	82 81	2,209 678	759
Coaling Stations	81	678	198
Total	368	3,635	4,003
Grand total	4,141	18,326	22.46

The total gold force employed on January 21 was 60 more than the 4,081 at work on December 24, 1919, and the silver force was 467 more than the 17,859 working on that date. As compared with the gold force for the corresponding month of last year, reported as of January 22, 1919, the present force is an increase of 712 over the 3,429 employed on that date, and the silver force an increase of 135 over the 18,191 of the same date.

The tabulation following gives the occupants by numbers as classified of Panama Canal and Panama Railroad quarters on January 31.

	Occupants.	Men.	Women.	Children.	Total.
Americans Europeans. West Indians		3,565 188 5,409	2.160 43 2.024	2,555 56 3,729	8.280 287 11,160
Total		9.162	4,227	6.340	19,729

### PUBLIC HEALTH.

There were 43 employees and 15 nonemployees, 1 nonresident, discharged from Canal Zone hospitals on account of malaria during January, as compared with 43 cases the preceding month. No deaths occurred from malaria. Influenza caused no deaths; 15 cases were discharged, as compared with 18 cases last month. Pneumonia caused 4 deaths, and 7 cases were discharged. There were no typhoid fever cases this month: during December there were 5 cases, 3 nonresident, and 1 death. Ten cases of chickenpox were discharged in January, as compared with 4 in December and 2 in November. One case of yaws was admitted and discharged. Three cases of leprosy were admitted, 1 from Juan Diaz, Republic of Panama, and transferred to Palo Seco. Four cases of smallpox, all from Juan Diaz, were admitted.

### RECEIPTS AND SALES OF MATERIAL AND SUPPLIES.

Material ordered on United States requisitions was received during the month in the total amount of \$733,946.90. The corresponding receipts for December were \$1,144,336.24. Of the January receipts, \$630,822.63 was chargeable to Operation and Maintenance, \$91,653.36 to Construction and Equipment, and \$11,470.90 to miscellaneous departments. Cash sales on the Isthmus from storehouses and obsolete store amounted to \$148,349.98, of which \$57,011.95 was for stock, \$89,296.89

for fuel oil, \$1,319.14 for scrap and \$722 for obsolete material.

The total sales of material from storehouses to steamships during the month was \$131,059.55, of which \$41,762.66 was for miscellaneous stock material, and \$89,296.89 for fuel oil. Sales of commissary supplies to all purchasers for January aggregated \$1,083,172.48, made up as follows: To steamships, other than United States Government vessels and those of the Panama Railroad Steamship Line, \$131,365.28, to The Panama Canal, \$130,767.66, to the United States Government, including sales to the Army and Navy, \$161,013.35, to individuals and companies, mainly through charge accounts in the retail commissaries, \$24,430.87, to the Panama Railroad, including its steamships and the Hotel Washington, \$37,945.49, and to individuals purchasing coupons, \$597,649.83.

### FINANCIAL RECEIPTS AND EXPENDITURES.

The cash balance in Canal appropriations on January 31, exclusive of Fortifications, was \$14,629,330.15, the balance in Fortifications was \$6,811,795.97. Payments from appropriations made by the Disbursing Clerk, Washington, amounted to \$728,792.63, and by the Paymaster on the Isthmus to \$1,506,555.91. Purchases of commissary books from the Payman Railroad Communicative to \$422,535,74

commissary books from the Panama Railroad Company amounted to \$422,535.74. Collections of tolls on the Isthmus amounted to \$766,775.24. Deposits of \$244,-453.75 were made with the Assistant Treasurer of the United States to be applied on payment of tolls and other charges against vessels using the Canal. The total Panama Canal collections on the Isthmus were \$2,277,762.08, and collections by the Disbursing Clerk, Washington, \$56,316.26. Receipts from Canal Zone and miscellaneous funds were \$205,165.12, disbursements from the same source were \$36,346.35. January payrolls on the Isthmus aggregated \$1,275,004.90, as compared with \$1,250,334.45 for the preceding month, an increase of \$24,670.45.

### Respectfully,

CHESTER HARDING,
Governor.

### Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

Mails for ships passing through the Canal or touching at either of the terminal perts should be addressed to "Cristobal, Canal Zone."

### MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight, February 28, 1920.

TEROUGH THE CANAL—ATLANTIC TO PACIFIC.

1	Cana)	l se Z	5,705 5,871 111 1,690 1,993	4,314 1,740 4,081 675 5,629	980 3,215 622 622 622 7,732 7,732 7,732 1,608 1,150 1,509 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,	2,706 2,706 2,706 5,174 1,565 1,496
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"Other than ships passing through the Canal.

Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

### Notice to Mariners.—Spar Buoys Discontinued in Cristobal Harbor.

THE PANAMA CANAL, EXECUTIVE DEPARTMENT, BALBOA HEIGHTS, C. Z., February 21, 1920.

CIRCULAR No. 643-73.

Two spar buoys, painted white, marking the anchorage for vessels carrying explosives, on a line 500 yards from the East Breakwater and running parallel with it, have been discontinued.

(H. O. Charts Nos. 950, 5000, and 5002.)

CHESTER HARDING,
Governor.

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending February 28, 1920.

				Carg	o—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Caribbean. Point Bonita. Tactician. Atenas. Beaumont. Gen. G. W. Goetbals. Zacapa. Jamaica. Urubamba. Lake Berdan Turrialba. Parismina. Huasco. Haarlem. Segura. Caribbean. E. L. Doheny. Manavi. Colon. Overbrook.	Pacific Mail Steamsbip Line. Harrison Line United Fruit Co. United States Shipping Board. Panama Railroad Steamship Line. United Fruit Co. Pacific Steam Navigation Co. Pacific Steam Navigation Co. Peruvian Steamship Line. United States Shipping Board. United Fruit Co. United Fruit Co. United Fruit Co. Chilean Steamship Line Royal Dutch West India S. S. Line	February 23 February 24 February 24 February 24 February 25 February 26 February 26 February 26 February 26 February 26 February 27	February 22. February 24. February 25. February 25. February 25. February 27. February 26. February 26. February 28. February 28.	1,093 2,626 170 2,420 3,8 104 2,361 5,80 3,7 202 9,000 640	Tora. 53 17 (*) 2 4.348 (*) 672 522 (*) 4 193

[&]quot; No cargo laded.

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending February 28, 1920.

				Car	30-
Name of vessel.	Line or charterer.	Arrived.	Departed	Discharged	Laded.
Point Bonita	Pacific Mail Steamship Co	February 22 February 27	February 22	Tons. 70	Tons.

### Executive Order.

In pursuance of the authority conferred upon the President of the United States by Section 2 of the Act approved August 18, 1914, entitled "An Act to provide for the admission of foreign-built ships to American registry for the foreign trade, and for

other purposes," it is hereby ordered:

1. That the provisions of law prescribing that the watch officers of vessels of the United States shall be citizens of the United States are hereby suspended so far and for such length of time as will permit alien watch officers who now hold United States provisional licenses, and who heretofore have declared their intention to become citizens of the United States, to serve on American vessels engaged in the foreign trade, until three years and three months shall have elapsed after the date of making their respective declarations.

2. That all executive orders heretofore issued suspending the provisions of law prescribing that all watch officers of vessels of the United States shall be citizens of the

United States are hereby revoked.

WOODROW WILSON

THE WHITE HOUSE, 7 February, 1920.

### Executive Order.

AUTHORIZING CHARGES FOR SERVICES RENDERED BY THE QUARANTINE DIVISION OF THE PANAMA CANAL.

By virtue of the authority vested in me, I hereby establish the following order

for the Canal Zone:

SEC. 1. The Governor of The Panama Canal is hereby authorized to establish, from time to time, a schedule of charges to cover services rendered by the Quarantine Division of The Panama Canal in the disinfection of vessels and their cargoes, for the transportation and subsistence of passengers while in quarantine, for placing guards aboard vessels when necessary, and for the inspection of vessels outside of the regular hours, which charges shall be paid to The Panama Canal by the person or interest receiving such service.

SEC. 2. The ordinance of the Isthmian Canal Commission, enacted August 5, 1911, and approved by the Secretary of War August 22, 1911, "Providing for night quarantine inspection of vessels at the port of Colon," and all other laws, orders and

regulations in conflict with this order are hereby repealed. SEC. 3. This order shall take effect from and after this date.

WOODROW WILSON

THE WHITE HOUSE, 11 February, 1920.

[No. 3226.]

(Published as Panama Canal Circular 601-105.)

### March Weather Probabilities.

The following weather conditions may be expected at the Canal entrances during the month of March, 1920; these predictions are based on the weather records at Cristobal and Balboa Heights for the last 12 and 14 years respectively.

Winds—Dry season weather will prevail over the Isthmus throughout the month. There will be a continuation of February wind conditions with little change either in prevailing direction or average velocity. On the Atlantic coast the prevailing direction will be North or Northeast with an average hourly velocity of about 15 miles. The maximum velocity is not likely to exceed 35 miles per hour. On the Pacific coast the prevailing direction will be Northwest to North, with an average hourly velocity of about 11 miles. No winds above 30 miles per hour may be expected. Rain—March is the month of least average rainfall on the Isthmus, and nothing

more than an occasional light shower is probable. The 50-year average rainfall at Cristobal is 1.59 inches, and the 21-year average at Balboa Heights is 0.65 inch. Fog—No fogs are likely to occur at either Canal entrance, but occasional night or early morning fogs may be expected in the interior. The average number of nights with fog over the Gaillard Cut section of the Canal is four. All fogs will probably be light and nearly he opported to along average for 20 c.

be light and may be expected to clear away before 8.30 a. m.

Temperature—The monthly mean air temperature should average about 81° Fahrenheit on the Pacific side, and about 80° Fahrenheit on the Atlantic side. On the Atlantic side no temperature lower than 67° or higher than 88° may be expected, while on the Pacific side 65° to 96° are the extremes. The average daily range on the Pacific side is about 19° and on the Atlantic side about 7°

Relative humidity—The average relative humidity is about 73 per cent on the Pacific side and about 79 per cent on the Atlantic side. The range is greater on the Pacific side than on the Atlantic side on account of higher night humidity and

lower midday humidity.

Storms—Fair weather may be expected on both coasts during March. The effects of "Northers" may occasionally be felt as far south as the Atlantic entrance, and intensified Northwest Trades frequently cause rough seas and a heavy swell outside the breakwater. At the Pacific entrance the sea will be smooth to moderate.

Tides—Tidal fluctuations on the Atlantic side are too small to effect navigation.

### Sale of Annual Reports for 1919.

Annual Reports of the Governor of The Panama Canal for the year 1919, can be obtained from the Superintendent of Documents, Washington, D. C., at 40 cents per copy.

### Conversion of Liberty Bonds.

The Liberty Loan Committee has furnished the following information relative to the conversion or exchange of bonds of the first and second issues:

The Secretary of the Treasury, acting under authority of a provision contained In the Victory Loan Act, has extended indefinitely the time within which holders of first or second issue bonds can have them converted.

These bonds now bear interest at 4 per cent and have no further interest coupons attached.

They can be converted into bonds of the same issue bearing  $4\frac{1}{4}$  per cent.

At the time of conversion they can also be exchanged into same issue bonds bearing all interest coupons.

Bearer bonds can be exchanged into registered bonds of the same issue.

The fee for sending bonds to Washington is 50 cents for each \$100. This charge is to pay insurance at face value to and from Washington, postage, registry, and other incidentals.

There is no reason why holders can not send their bonds direct to Washington if they so desire and without insurance charge if they are willing to assume the risk, but the Liberty Loan Committee will not forward any bonds except those fully insured.

Bonds can be held until the subscribers return to the United States and then exchanged for bonds with all interest coupons attached and unless a time limit is subsequently fixed they can also be converted to the higher rate at that time.

The Liberty Loan Committee will not accept any bonds of the first or second issues for conversion or exchange after March 31, 1920.

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286).

Calculating-machine operator, operative (male and female); \$900 to \$1,200 a year; March 3, April 7, and May 5, 1920; No. 120; form 304; age, over 18 years.

Guard; \$720 a year (male and female); March 23, 1920; No. 121; form 1800; age, 21 but not 60.*

Chief of division of district offices, Bureau of Foreign and Domestic Commerce (male and female); \$2,500 a year; March 9, 1920; No. 116; form 2118; age, no limit.*

Scientific aid, Division of Physical Anthropology, National Museum (male and female); \$1,500 a year; March 16, 1920; No. 119; form 1312; age, up to 35.*

Foreman, heat treatment of armor plate, \$10 to \$14.40 a day; foreman, heat treatment of large guns, \$8 to \$12.56 a day (male and female); March 23, 1920; No. 118; form 1371; age, no limit.*

Aeronautical draftsman. Field Service of the Navy Department (male and female); \$5.20 to \$12 per diem; No. 112; form 1312; age, over 18.†

Statistical expert (male and female); \$3,600 to \$4,500 a year; March 9, 1920; No. 111; form 1312; age, 2,52 but not 50.*

age, 25 but not 50.*

Press feeder (male and female); \$3.20 a day, \$840 a year; No. 449-amended; forms 304 and 1145; age, no limits.

Geologic aid, assistant geologist (male and female); \$1,200 to \$1,800 a year; March 17-18, 1920; No. 103; form 1312; age, over 20.

Lithographic map engraver (male and female); \$1,200 to \$1,500 a year; March 9, 1920; No. 108; form 1800; age, 21 but not 40.*

Laboratory assistant (male and female); \$900 to \$1,200 a year; March 9, 1920; No. 110; form 1312; age, 18, but, not 35; but, not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35; but not 35

18 but not 35.*

age, 18 but not 35.*
Blue printer (male and female); \$720 a year to \$4 or over per diem; No. 441-amended; age, over 18.†
Veterinarian, lay inspector. Grade 1 (male and female); \$1,500 to \$1,800 a year; April 7, May 5, and June 9, 1920; No. 514; forms Nos. 304 and 1312; age, 21 but not 45, and 18 but not 45, respectively.
Inspector and agent. Anti-narcotic Act (male and female); \$1,500 to \$2,000 a year; April 13, 1920; form 1312; age, 21 years but not 45 years.*
Translator, qualified as assistant tariff expert (male and female); \$2,000 a year; April 21, 1920; form 1312; age, no limits.
Reservation warden (male and female); \$1,200 to \$1,500 a year; April 7, 1920; form 1312; age, 21

years but not 45 years.

Assistant field agent, protective social measures (male and female); \$1,200 to \$2,000 a year; April 21, 1920; No. 137; form 1312; age, 21 years and over.

Forest assistant (male and female); \$1,500 to \$1,800 a year; No. 138; March 17-18, 1920; form 1312; age, 20 years and over.

F-1 addressograph operator (male and female); \$900 to \$1,200 a year; No. 129; April 7, May 5, and June 9, 1920; form 304; age, 18 years and over.

Automatic 3 addressograph operator (male and female); \$1,200 to \$1,400 a year; No. 129; April 7, May 5, and June 9, 1920; form 304; age, 18 years and over.

Automobile mechanic (male and female); \$150 to \$175 a month; form 1312; No. 129; March 23, 1920; age, 20 years and over.* years but not 45 years.

Steward, Freedmen's Hospital, Washington, D. C. (male and female); \$720 a year; No. 125; March 23, 1920; form 1312; age, 20 years and over.*
Teacher, Ordnance Department at Large (male and female); \$60 to \$140 a month; No. 127; April

7, 1920; form 1312; age, no limits. Lithographic press helper (male); \$700 a year; No. 126; March 17, 1920; form 304; age, 16 years and over.

olier (male and female); \$900 a year; No. 133; March 30, 1920; form 1800; age, 18 years and over.* Automatic scale expert (male and female); \$1,600 a year; No. 122; March 17, 1920; form 1312; age, 18 years and over.

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.
†Nonassembled. Applications will be received at any time until further notice.

### Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Rail-road Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings, or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once.

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Loronzo Arancivia (Arancevia) Samuel Britton (Bretton). Henry Neusam (Newson). Manuel Pinday (Pindia). Marcelino Vasquez.	41858 39121 35892 26457	Panama Jamaica Jamaica Peru Panama	Colon		February 12, 1920. February 17, 1920. February 24, 1920.

### Re-employment of Silver Employees.

THE PANAMA CANAL, EXECUTIVE DEPARTMENT BALBOA HEIGHTS, C. Z., March 1, 1920.

All concerned-In order to avoid misunderstanding and confusion regarding the status of silver employees who are being reemployed the following

instructions should be borne in mind:

Men who reported for duty on or before the usual hour for reporting for work after noon of February 27 and who have not been absent without proper excuse since then will not sufter any

change in status and will receive the increase authorized to be effective February 1.

Those who have been or may be reemployed after the hour above specified will be re-employed. strictly in accordance with the rules contained in Circulars 666-12 and 666-13. Their employment in February up to the time they voluntarily quit will be at the rates authorized including the February 1 increase, and their re-employment will be at a lower rate than the rate so received.

Clearances should be issued to the men who

went on strike showing termination of service as "voluntarily quit" and conduct and workmanship ratings should take into account their record up to the time of quitting only. In other words, ignore the motive for quitting and rate each individual on his work.

ignore the motive for quitting and rate each individual on his merits.

Men will be re-employed to the extent necessary to fill the positions not filled during the continuance of the strike, and discretion as to the men who will be refused employment is vested in the general foremen and officials of similar grade. These officials will decide whether the action of foremen are other under their supervision, in re-I ness officials will decide whether the action of foremen or others under their supervision, in reemploying or declining to re-employ men who were on strike, is proper. It is desired that a spirit of tolerance be shown toward the men selected for re-employment, as they have been the victims of false advice and irresponsible leadership. leadership.

CHESTER HARDING, Governor.

### Quarters Within Hospital Grounds.

THE PANAMA CANAL, EXECUTIVE OFFICE

BALBOA HEIGHTS, C. Z., February 18, 1920, Circular No. 627-25.

Paragraph 9 of Circular No. 627-24, dated

June 3, 1919, is amended to read as follows:

9. All family quarters distinctly and definitely within hospital reservations shall be regarded as for use of hospital physicians and nurses, with the exception of Ancon Hospital reservation where exception of Ancon Hospital reservation where certain designated apartments have been set aside for the position of pharmacist, electrician, general mechanic, embalmer, property clerk and steward. The assignment shall remain under the jurisdiction of the Chief Quartermaster. Applicants for hospital quarters can not file applications for quarters outside of hospital reservation.

CHESTER HARDING. Governor.

### Payment of Bills.

THE PANAMA CANAL, EXECUTIVE OFFICE.

Balboa Heights, C. Z., February 13, 1920. Circular No. 659-2.

Circiliar No. 659-2.

The prompt payment of bills rendered against employees, by The Panama Canal and Panama Railroad Company, for supplies or services, not covered by security deposit or for which cash payment is not made, is essential for the proper and economical bandling of such accounts. With

economical handling of such accounts. With a view of securing prompt payment of such bills, the following rules and regulations are prescribed:

1. All regular monthly bills rendered in advance, on the 1st of each month, such as garage, corral, and telephone bills, must be paid before the close of business on the 24th day of the month in which rendered, or on the preceding business day when the 24th falls on a Sunday or holiday.

2. Other bills rendered at the close of the month

Other bills rendered at the close of the month such as commissary and laundry bills, must be paid on or before the 24th day of the month following that in which the service was rendered or supplies furnished, and miscellaneous bills such as Quartermaster's bills, motor car repair shop bills, etc., if rendered on or before the 10th of the month must be paid on or before the 24th of that month. Bills rendered after the 10th of the month must be paid before the 24th of the succeeding month.

month.

3. All bills remaining unpaid at the close of business on the dates above specified will be collected by pay roll deduction.

4. Collecting agents handling such bills must, at the close of business on the 24th of each month, forward all unpaid bills, with a list in duplicate, to the Auditor for deduction on current pay rolls.

5. Collecting agents shall not accept cash payment from employees for bills of the kinds above mentioned, after the close of business on the 24th

of each month.

6. To each bill collected by pay roll deduction a charge of 50 cents will be added to cover the cost of collection when the amount of such bill is less than \$20, and \$1 when the amount is \$20 or

less than \$20, and over.

7. Bills for medical and hospital treatment, Hotel Aspinwall bills, bills for rental of silver quarters and monthly bills for electrical appliances charged against silver employees, will be handled by deduction on current rolls without charge, as heretofore.

8. Bills against other than employees must be applied to the property of the complexity a. B. Bills against other than employees must be paid on or before the dates fixed for employees. Failure to pay bills in accordance with the above regulations, will result in the cancellation of the credit privilege or the discontinuance of the service.

ice. Nothing in this circular is to be construed to grant credit or "charge" accounts where such privilege has not been granted heretofore. All

regulations regarding security deposits and cash payments remain in effect.

10. Penalties for nonpayment of garage, corral, and telephone bills as provided for in circulars 672–1 and 650–2 are hereby canceled.

11. The foregoing rules will apply to bills rendered on and after February 1, 1920.

CHESTER HARDING, Governor, The Panama Canal. President, Panama Railroad Company.

### Employment of School Chitdren.

THE PANAMA CANAL, EXECUTIVE DEPARTMENT

BALBOA HEIGHTS, C. Z., February 26, 1920. HEADS OF DEPARTMENTS AND DIVISIONS:

Do not employ school children during school ours. There is no objection to their employment hours. after school hours if parents consent.

CHESTER HARDING, Governor.

### Loan of Property for Other Than Official Use.

THE PANAMA CANAL, EXECUTIVE OFFICE

Balboa Heights, C. Z., February 18, 1920. Circular No. 656-14 (Superseding Circular No. 656-12):

1. Effective at once, no Panama Canal or Panama Railroad property will be loaned for other than official use, whether from regular stock or in use by departments and divisions without first securing the authority of the Governor, and in any event no property will be loaned without a rental charge.

2. All property loaned will be inspected prior to delivery, by the Surveying Officer, except in cases where total value of articles loaned is less than \$25. Rental will be charged at the rate of 10 per cent per month, or fraction thereof, computed on basis of purchase price of new articles of like nature in cases where articles loaned do not exceed \$25 in total value with a minimum charge of \$1. \$25 in total value, with a minimum charge of \$1. Where total value of articles exceeds \$25, rental charge will be set by the Board of Appraisal, and in such cases will be covered by formal survey

and in such cases will be covered by formal survey requests.

3. Receipts for all articles loaned by authority from this office, where value is less than \$25 will be taken by divisions loaning the property, and they in turn will furnish copy of the receipt to the Auditor, also information as towhen articles are returned and condition of same on return. Articles covered by survey requests will be invoiced to the Auditor, invoices to be accompanied by signed receipts from the party to whom loan is made and when the property is returned to The Panama Canal, resurvey will be made to determine their condition and on the basis of this resurvey bills will be prepared by the Auditor covering not only the rental but such additional charges as may be approved on the basis of the resurvey.

4. All authorities for loans will be approved by the Governor and communicated through the Surveying Officer, who will issue letters of authority, sending full instructions in regard to rental charges and such other data as may be

necessary.

CHESTER HARDING, Governor, The Panama Canal. President, Panama Railroad Company.

### Commissary Books.

THE PANAMA CANAL. ACCOUNTING DEPARTMENT

BALBOA HEIGHTS, C. Z., March 1, 1920. To all concerned—As soon as the present supply of \$5 commissary coupon books becomes exhausted there will be placed in stock two different series of books of this denomination, one series (form 5407–S) will be issued to silver employees, the other (form 5407) will be issued to gold employees.

A new book containing coupons to the value of \$7.50 will also be placed in stock for issue to silver employees only, and is designed to reduce to a minimum the work connected with the issuing of

books of smaller denominations.

A supply of form 5048-2 will be sent to each issuing clerk for requisitioning a supply of books

from stock.

ELWYN GRERNE, Acting Auditor.

### Command of Panama Canal Department.

GENERAL ORDERS HEADQUARTERS,
NO. 10. PANAMA CANAL DEPT.,
ANCON, C. Z., February 22, 1920.

Under the provisions of paragraph 196, Army Regulations the undersigned assumes command of the Panama Canal Department.

B. C. Morse, Colonel, 33d Infantry.

### Misdirected Letters.

Misdirected Letters.

Balboa Heights, C. Z.. March 3, 1920.
The following insufficiently addressed mail has been received in the office of the Director of Posts and may be obtained upon request of the addressee. Such request may be made by telephone, calling No. 182, Balboa: Anderson, Joseph Bradley, Mrs. J. Brown, F. W. Callahan, Miss Edna Cheney, T. E. Callahan, Miss Edna Cheney, T. E. Callahan, Miss Edna Cheney, T. E. Callahan, Miss Edna Cheney, T. E. Callahan, Miss Edna Cheney, T. E. Sample, James N. Sample, James N. Sample, James N. Skwara, Frank Shwara, Frank Smith, Mrs. Marie A.

Gunor, Edward Hanson, J. A. Maycock, Henry Morris, E. P. (Prof.) Morris, Paul J.* Norbury, Joseph Ortiz, Enrique

Roache, John
Robinson, J. E.
Russin, Harry O.
Ryfkogel, Ernest J.
Sample, James N.
Servoss, Mrs. E. B.‡
Skwara, Frank
Smith, Mrs. Marie A.
Stone, C. W.
Thompson, Mrs. C. E.
Walsh, Stevenson H.
Wattsen, C. R.
Wilkinson, B. W.

*Package. †Special delivery. ‡Paper.

### THE PANAMA CANAL RECORD

OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address The Panama Canal Record, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C.

Entered as second-class matter, February 6, 1918, at the Post Office at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., March 10, 1920.

No. 30.

### "Acajutla" Repaired and in Service.

The Pacific Mail steamship Acajutla, in service on the west coast of South America, is ready to leave the marine shops at Balboa after 3 months of extensive refitting and repairs. Her coal bunkers were cut out and a complete oil-burning outfit was installed. While this was being done the main and auxiliary machinery was taken down, repaired and adjusted, and the vessel was given a general overhauling.

### Repairs to the Peruvian Cruiser "Lima."

The Lima, a cruiser of the Peruvian Navy, slightly over 2,000 tons gross, left Balboa on March 8 for Callao after having been extensively overhauled and repaired at Balboa shops. She had been at the shops over 4 months. The repairs originally ordered were completed 2 months ago and the ship was ready to sail when further repairs were ordered.

The boilers, two double-ended and two single-ended Scotch marine boilers, were removed and rebuilt. While these were out, the bunkers were rebuilt and all of the frames renewed. All of the piping for steam and water in and around the boiler space was repaired or renewed; a general overhauling was made of the main and auxiliary machinery, the condensers were retubed, and a new pilot house was built. The ship had no wireless installation, and she was completely fitted with a new system and a house was built for the installation. Other general repairs and replacements were made.

The Lima was built at Kiel in 1879, and is a sister ship of the Topeka of the United States Navy. Both vessels were built for the Peruvian Navy, but an agreement with Chile as to limitation of armament made it impracticable for Peru to accept one of the ships, which was sold to an English ship company, which in turn sold it to the United States

just prior to the Spanish-American war.

### Salvaging the "Marne."

The Shipping Board steamship Marne, which was sunk in Cristobal harbor on January 24, for the purpose of extinguishing a fire, was raised by forces of the Mechanical Division of The Panama Canal after about 3 weeks of work, and was towed into dock No. 6 at Cristobal for unloading. The general foreman of the marine shops at Cristobal was in direct charge of the work, and he had with him men from Balboa and Cristobal shops and the Dredging Division.

The Marne was lying in about 40 feet of water, and as the hull had a depth of only 35 feet, several feet of water were over the deck, the only parts above the water being the midship deck house and the raised poop and forecastle. This necessitated a temporary extension of the bulwarks, which was done by using planks, somewhat in the nature of sheet piling, arranged with overlapping edges, with strips of canvas worked into the joints to obtain water-tightness. Sections about 12 to 16 feet wide were assembled at Cristobal shops. These were swung into place by cranes on the crane boat La Valley; and the lower edge was bolted to the vessel by divers, who drilled holes under water with air drills and put in the bolts when the sections were in place. These sections had a cushion or gasket of considerable thickness on the lower edge made of canvas stuffed with oakum for the purpose of securing water-tightness along the bottom over the irregular surface on which the sections were drawn up.

Divers worked for several days putting temporary wooden patches over the numerous holes in the shell of the vessel which were made by the projectiles from submarines which were used to sink the vessel. Numerous large centrifugal and reciprocating pumps were installed at various parts of the vessel for the purpose of pumping out the water as soon as the wooden extensions were completed. They were driven by air from an air compressor barge which had been towed alongside. One of the divers succeeded in connecting air to the main circulating pump of the *Marne*, located in the bottom of the engine room, and in opening the necessary valves so that this pump also could be used. This is considered a good piece of work by the men in charge of the salvaging. Other pumps of the vessel were also used at later stages when the ship was afloat.

The work of salvage was retarded greatly in the beginning by the fact that the fire was not extinguished until after several days of fighting. The fire in the midship holds, which was the most persistent, was finally extinguished by smothering it with steam from the boilers of the air compressor barge.

Another difficulty that had to be overcome was clearing away the cargo in the hatches to enable the pump suctions to be put far enough down in the vessel to lower the water enough so that the ship would float. The fact that the cargo consisted mainly of benzine and turpentine, and that the bunker tanks were filled with fuel oil, increased the difficulties of the work. There was always great danger of fire breaking out again, and the oils covered the surface of the water and everything near it, giving off disagreeable odors and making footing uncertain. The fumes from this oil turned the white paint in the cabin of the crane boat black, and bright silver coins carried in the pockets of the men at work were also blackened. Several men were obliged to seek medical aid on account of the effects of the fumes.

After all preparations had been completed the pumps were started and the water was lowered in the vessel, the divers meanwhile having gone repeatedly to the various underwater openings and tightened the patches so as to reduce the leakages to such a point that the pumps could handle more water than could leak in. The stern of the vessel lifted first, and several hours later the bow also cleared the bottom. After the ship had been lifted a sufficient amount to clear the mud that had banked up around the spot where she lay, she was moved a distance of a mile or more into shoal water as a precaution against her going down again in event of accident to the pumping equipment or the patches being loosened. The vessel was raised higher each day until all of the water that could be reached by the pumps had been pumped out.

As soon as a berth was available in dock No. 6, the place chosen for unloading the cargo, the ship was moved into that dock on March 1. Only a small force of stevedores was available and therefore only a small proportion of the cargo had been removed by Saturday the 6th. In the early morning of that day there was a heavy explosion in the vicinity of the engine room, immediately followed by fire. At once the ship was towed from the dock, and she sank in the harbor off the end of the mole in about 40 feet of water.

The raising of the vessel for the second 'time is now being undertaken by much the same methods as already described. The work is retarded however, by the fact that the fire has not yet been extinguished. There is this difference, the vessel has not sunk forward and efforts are being made to keep the bow affoat by pumping out the forward holds as the

water leaks into them.

### Thanks to American Employees.

THE PANAMA CANAL, EXECUTIVE OFFICE, Balboa Heights, C. Z., March 8, 1920.

All concerned—I wish to express my heartfelt appreciation of the spirit of loyalty and patriotism exhibited by American citizens and others on the Isthmus in their successful efforts to continue the essential functions of the Canal and Railroad during the recent strike of silver employees. The gratifying feature of this action rests not only in the defeat of the attempt of a large majority of the silver employees to impede the operation of the Canal and Railroad as a means to force compliance with the demands of irresponsible leaders, but also, and in large measure, on the spirit of pride and patriotism splendidly manifested in the determination to vindicate American efficiency and to uphold the spirit of Americanism in this great enterprise, through which the Government of the United States serves the whole world.

The "esprit-de-corps" of the Canal organization has been often manifested in the past, and it is gratifying to know that it continues to exist as an active and dependable force for the good of the Canal.

> CHESTER HARDING, Governor, The Panama Canal. President, Panama Railroad Company.

### High Wind at Cape Mala, January, 1920.

The wind movement at Cape Mala during the month of January, 1920, averaged 23 miles an hour, compared with 17 miles at Cristobal and Sosa Hill. This is the highest average monthly wind movement ever recorded on the Isthmus, and it is seldom exceeded at stations in the United States, except at the more exposed coast stations such as Point Reyes and Mt. Tamalpias, Cal.; Tattoosh Island, Washington; and Block Island, Sandy Hook, and Cape Hatteras on the Atlantic coast.

The wind direction at Cape Mala was from the north during practically the

entire month, and the maximum velocity was 52 miles an hour from the north

at 6.10 a. m., January 12.

### Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Wishington, D. C."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

### MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight, March 6, 1920.

5,156 2,425 5,720 5,130 1,795 4,838 4,499 5,256 5,029 5,528 4,898 759 4,214 4,945 3,066 3,650 1,806 5,882 3,813 350 828 871 349 360 362 362 Panama Canal Tonnage 2,636 740 6,846 2,242 2,835 6,755 7,288 6,747 4,759 2,807 7,490 5,327 6,711 3,052 8,774 3,524 7,486 6,932 7,093 6,575 1,241 5,678 6,736 4,508 Gross 3,400 1,580 8,063 3,000 3,683 8,700 8,700 8,000 614 207 614 8,119 000 8.332 Tons 80.00 Nitrates. General. Flour. Gen., machinery. Tocopilla.... Coal and coke ... Coal General.... General Geo., parafine... General Phosphate rock. Oil and general. Oil and general. Cargo General. General. General General General Boston. Cristebal New York... San Diego..... San Diego..... Mejillones.... Buenaventura. Guayacan.... New Zealand.. Shanghai... Sydney... Honolulu... Antofagasta.. Balbea Taltal .... Weilington. Chile..... Guayaquil. Valparaiso. Valparaiso. San Diego. San Diego. Callao.... Manila.... San Diego. Auckland. Osaka Shanghai Salaverry For fortique. New York... Cristabal.... San Juan... Buenaventura. Portland..... Puerto Cortez. Newport News Puerto Cortez. Mejillones.... Guantanamo. Guantanamo. New Orleans. ristobal.... New York... Philadelphia. Philadelphia New York. New York. New York. New York. Amsterdam Vew York. Lendon... 3altimere. From Cristobal. Pristobal 0 27.4 13.8 19.6 21.0 0000 Salt water draft 16. 23. 13. 19. THROUGH THE CANAL -- PACIFIC TO ATLANTIC. 54.0 29.1 49.0 54.0 THROUGH THE CANAL -ATLANTIC TO PACIFIC 00000000000000000 --00 000000 Beam 19 30. 34. 54. 455.29 435.29 421.0 190.0 273.0 420.0 143.0 000000000000000000 0000 Length 266.1 190. 395. 253. 2298 410. 4405. 395. 395. 420. 420. 420. 2216 3390. 379. 361. 361. United States Navy
New Zealand Shipping Co
United States Shipping Beard
Pacific Steam Navigation Co
Bruusgaard Kiesteryd City Line.
Colombian Maritime Co.
United States Shipping Board...
Netherland Steamship Co. United States Shipping Board... Colombian Maritime Co... United States Shipping Board... United States Shipping Board... A. H. Hull Steamship Co.... United States Shipping Beard... United States Shipping Board... United States Navy... United States Navy...Royal Dutch West India Mail Co. United States Navy..... South American Steamship Line. States Navy..... Prince Line, Ltd..... Hall Line, Ltd..... W. R. Grace & Co. United States Shipping Board. United States Shipping Board. United States Shipping Board. United States Shipping Board. United States Shipping Board. United States Shipping Board. nited States Navy..... Line ted American... American ... American... American... American ... American... American... British.... Norwegian.. American... British .... Norwegian American. British.... Nationality American. American. Chilean... American. Dutch .... American. American. American. British ... American American. American. 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Distribution Among Ports of Cargo Passing Through the Canal from Pacific to Atlantic, January, 1920.

Liverpool, England.	6,426 6,426 5,500 5,500 7,108 41,109
Науте, Гтапсе.	8 8.206
Hampton Roads, Va.	7,010
Hamburg, Germany.	7,021
Ghent, Belgium.	6,921
Genoa, Italy.	9,300
Falmouth, England.	4,363
Dunkirk, France.	9,045
Cristobal, Canal Zone.	6, 571 6, 571 3, 356 3, 356 3, 356 3, 224 4, 283 8, 204 4, 283 8, 204 4, 283
Corenhagen, Denmark,	8,426
Charleston, S. C.	00.395
Cardiff, Wales.	7,000
Breat, France.	1,200
Boston, Massa,	4,700
Bordesux, France,	7.400
Baltimore, Maryland.	3,3,0000
Antwerp, Belgium.	7777
Antilles.	2,131
Ameterdam, Holland.	9,600
Alicante, Spain.	5,500
Alexandria, Egypt.	6,700
From—	Aberdeen, Wash, Antofagasta, Chile, Astoria, Oreg, Beneraventura, Colombia, Caldera, Chile, Caldera Chile, Caldera Chile, Caldera Chile, Caldera Chile, Caldera Chile, Caldera Chile, Caldera Chile, Caldera Chile, Champerico, Guitanda, Guito, Chile, Guito, Chile, Guito, Chile, Meillione, Chile, Meillione, Chile, Meillione, Chile, Meillione, Chile, Meillione, Chile, Port Anceles, Wash Port Baltely, Wash Port Baltely, Wash Port Baltely, Wash Port Baltely, Wash Puttrenay, Argentine San Francisco, Cal San Francisco, Cal San Francisco, Cal San Francisco, Cal San Francisco, Cal San Francisco, Cal San Francisco, Cal San Francisco, Cal San Francisco, Cal San Francisco, Cal Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcabana, Chile, Talcab

Distribution Amond Ports of Cargo Passing Through the Canal from Pacific to Atlantic Jan

Total	54.775 54.775 54.775 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055 56.055	580.118
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Wilmington, N. C.	33,140	14.110
United Kingdom.	6 6.200	16.068[14.110]
St. Nazaire, France.	62	8,428
Saqua la Granda, Cuba,	8772	872
Santander, Spain.		7,252
Savannab, Ga. Saptander,		30,652
Rotterdam, Netherlands.		9,528;
Queenstown, Iteland.		12,055
Philadelphia, Pa.	6775	11,307
Ostend, Belgium.	. 5550	3,550 1
Nortolk, Vs.		5,838
Nipe, Cuba.		1,417
New York,	8,150 8,055 1,840 7,100 7,100 15,131 22,275 6,963 24,119	945 125,749
New Orleans, La.		4,945 15
Nantes, France.	6.0018	6,018
Mobile,	1,704	1,704
Matanaaa, Cuba.		3,186
Marseillea.	65, 620	7,338
London, England.	5, 4, 495	20,702
From—		LOTAL

Distribution Among Ports of Cargo Passing Through the Canal from Atlantic to Pacific, January, 1920.

Hongkong, China.	8,407	Total	1,000 2,000 300 1,700 2,128 14,309 7,500
Lyttleton, New Zealand.	2,214	Yokobama, Japan.	
Iquique. Chile.	6,536	Wellington, New Zealand	
Honolalu.	7,500 8,500 7,000 8,346 7,285 13,430	Vladivostok, Siberia.	
Guayaquil, Ecuador.	3,631 3,631 363 4,314	Vancouver,	
Coronel, Chile.	4,072	Valparaiso, Chile,	3,459
Chile.	4,010 9 9 9 14 10 10 4,048	Tumaco, Colombia.	716
Champerico, Guatemala.	1,074	Tocopilla, Chile.	
Callao, Peru.	7,200	Talcahuano, Chile.	
Buenaven- tura, Colo.	314	,itidsT	1,000
Balbos, Canal Zone.	8,800	San Pedro, California.	
Auckland, New Zealand.	14,822	Shangbai, SaintO	
Antofagasta,	10,000	Seattle, Taotgaides W	
		San Francisco California.	2,000 1,700 2,128 1,073
		Pisagua. Chile.	
		Paita, Peru,	
From—	Antwerp, Belgium Battimore, Md Battimore, Md Baroteaux, France Brevik, Norway Clefiniteges, Cuba Clefiniteges, Cuba Clefiniteges, Cuba Gallvegen, Tex. Gallvegen, Tex. Gallvegen, Scolland Hamburg, Germany Habana, Cuba Habana, Cuba Liverpool, Brigand Lordon, Brigand Lordon, Brigand New Orlenns, La. New York, N. Y. Norfolk, Wa Philadelphia, Pa. Port Limon, Costa Rica Port Arthur, Tex. Port Arthur, Tex. Port Arthur, Tex. Port Limon, Costa Rica Port Limon, Costa Rica Branga, Cuba Santaga, Cuba Santaga, Cuba Santaga, Cuba Santaga, Cuba Santaga, Cuba Santaga, Cuba Raymico, Mexico	From—	Autwerp, Belgium Baltimore, M.1 Bordeaus, France Brevik, Noway Ceintlegos, Cuba. Chistobal, C. Z. Chistobal, C. Z.

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- Inagona	Hembin	Habana	Kingsto	Liverno	London	New Or	Namor	New Yor	Norfolk	Philade	Port Ar	Port Lin	Puerto	Santica	Savann	Tamna.	Tampio	To

## MOVEMENTS OF OCEAN V. SSELS .- Continued from page 431.

PORT OF BALBOA.

	For.	Kobe via Honolulu. Kobe via Honolulu. Puntarenas.	
*DEPARTURES.	Line.	United States Shipping Board Kobe via Honolulu. United States Shipping Board Kobe via Honolulu. Kingsley Navigation Co Puntarena. O. J. Olsen Mollendo.	Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.
	Vessel.	Feb. 29. Fireliffe.  March 4. Lake Filbert.  March 5. E. D. Kingsley.  March 5. Persiso	-hour basis and all hour
	Date	Feb. 29 March 4. March 5.	spressed on the 24-
	From.	Iquique. Buenaventura. Amapala. Eureka.	
*ARRIVALS.	Line.	United States Shipping Board Iq Kingsley Navigation Co Bu United States Navy O. J. Olsen.	ner than ships passing through the Canal.
	Vessel.	Lake Stobi. E. D. Kingsley. U. S. S. Tacoma.	*Other
	Date.	Feb. 28. March 4. March 3.	

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending March 6, 1920.

				Care	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Santa Marta. Cape Fear. Panama Balboa Lake Flynus. Huasco Manavi Guatemala Median. San Juan Achilles. Laura C. Hall. Peru Imperial. Carrillo. Caribbean Cartago Crynssen Allianca.	United Fruit Co. United States Shipping Board Panama Railroad Steamship Line. Colombian Maritime Co. United States Shipping Board Chilean Steamship Line. Pacific Steam Navigation Co. Pacific Steam Navigation Co. Leyland Line. Pacific Mail Steamship Line. Pacific Mail Steamship Line. Pacific Mail Steamship Line. Pacific Metals Corporation Pacific Steam Navigation Co. Chilean Steamship Line. United Fruit Co. Panama Railroad Cattle Industry United Fruit Co. Royal Dutch W. I. Mail S. S. Co. Royal Dutch W. I. Mail S. S. Co.	February 29. February 29. February 29. March 1. March 1. March 2. March 3. March 3. March 4. March 4. March 4. March 4. March 4. March 4. March 5.	March 6 March 5 March 4 March 4 March 4	2,878 2,646 614 2,779 1,553 492 2,069 12,205 50 2,173 1,359 890 250 (*)	(†) 282 543
Haiti	French Line	March 6		178	

^{*} No cargo discharged.

† No cargo laded.

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending March 6, 1920.

				Cargo-	
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Seiyo Maru Balboa Guatemala San Juan Peru Balboa	Toyu Kisen Kaisba. Colombian Maritime Co. Pacific Steam Navigation Co. Pacific Mail Steamship Co. Pacific Steam Navigation Co. Colombian Maritime Co.	February 28 . February 29 . March 1 March 3	February 29 March 1 March 2 March 4	57	Tons. *44

^{*} Information unavailable for last week's report.

### Panama Railroad Steamship Line Freight Tariffs.

The Panama Railroad Steamship Line, in connection with the Pacific Mail Steamship Company, has established the following rates on coffee from Cartagena, Colombia, to San Francisco:

All rules and regulations applying in Tariff No. 4 are applicable to

In the publication of Tariff No. 4, Cartagena to New York, and Tariff No. 3, between Cartagena and Cristobal, in The Panama Canal Record of February 4, 1920, the rates of freight of Tariff No. 3 were printed in error as a part of No. 4, forming the first paragraph of the latter, on page 361. These rates apply between Cartagena and Cristobal, not from Cartagena to New York; they are reprinted here for the sake of clarity:

### RATES OF FREIGHT.

Tariff No. 3, between Cristobal, C. Z., and Cartagena, Colombia.

(In United States currency or its equivalent.)

Commodity.  General merchandise, per 40 cubic feet or 2,000 pounds ship's option  Cattle, horses, etc. (see Item 5):	Rate. \$6.38
Horseseach	
Muleseach Steers, beefeach	15.00 15.00
Bulls	15.00

Steers, lean.....each.. 12.00

Cattle horses, etc.—Continued.	Rate.
Cowseach	\$12.00
Yearlingseach	8.00
Calveseach	4.00
Sheepeach	3.00
Hogseach	4.00
Launches, 20 feet in length or over, subject to special arrangement.	
Launches, under 20 feet in length, per running foot	9.56
Lumber, except hardwood, per 1,000 ft. B. M	8.00
Pears, alligator, on dock at owner s risk, per cu. ft	. 58
Poultry and animals (see Item 6) in crates, ship's option:	
Per large crate	5.10
Per small crate	2.55
Rice, per 100 lbs	.38
Rowboats and yawls 20 feet in length or over, subject to special arrangemen	t.
Rowboats and yawls under 20 feet in length, per running foot	3.82
Specie Ad valorem 14	per cent

### Executive Order.—Obtaining Vessels and Equipment from Navy.

The following Executive Orders are published for the information of all concerned.

CHESTER HARDING. Governor.

Under authority of the Act of Congress, Chapter 78, Section 2, approved May 20, 1918, Executive Order No. 3091, dated May 24, 1919, is hereby amended so as to Include The Panama Canal. WOODROW WILSON

THE WHITE HOUSE,

February 3, 1920.

The following Executive Order No. 3091 is made applicable to The Panama Canal by the above order.

EXECUTIVE ORDER.

Under authority of the Act of Congress, Chapter 78, Section 2, approved May 20, 1918, it is hereby ordered that the Secretary of the Navy be and he hereby is authorized to transfer any or all vessels, boats, and auxiliary ships of the Navy classified as yachts, colliers, transports, tenders, supply ships, hospital ships, submarine chasers, patrol boats, motor boats, fishing vessels, and special types built, purchased or commandeered for a substantial consideration by the Navy subsequent to the declaration of Congress by joint resolution approved April 6, 1917, that war exists between the United States and Germany, and provided said vessels were built, purchased, or commandeered for the purposes of said war, and any other Executive Department of the Government is desirous of securing from the Navy Department such vessels, boats, and auxiliary ships, or any of them, which are, in the opinion of the Secretary

of the Navy, not necessary for the needs of the Navy, upon such terms as may be agreed to by the Executive Head of such Department and the Secretary of the Navy. It is hereby further ordered that the Secretary of the Navy may in his discretion and upon such terms as may be agreed to by him and the Executive Head of any Executive Department desirous of obtaining same, transfer the materials and equipment of vessels, boats, and auxiliary ships of the Navy as above described, said materials and equipment consisting of masts, bowsprits, boats, anchors, tackle, furniture, and all other necessaries appertaining and belonging to such vessels hosts. furniture, and all other necessaries appertaining and belonging to such vessels, boats.

and auxiliary ships.

WOODROW WILSON

THE WHITE HOUSE, May 24, 1919.

The above has been published as Panama Canal circular No. 601-106.

### Steamship Transportation for Employees.

Employees are requested to read and be guided by the following:

THE PANAMA CANAL,

WASHINGTON OFFICE, Washington, D. C.

SPECIAL INSTRUCTIONS TO STEAMSHIP PASSENGERS.

Steamer Reservations and Payment of Passage Money on Panama Railroad Steamers— Passage money for steamship tickets, including cost of war revenue stamp in accordance with the scale given below, must be sent, by postal money order, bank draft, or express money order, to the Panama Railroad Company, 24 State Street, New York, N. Y., payable to said company in New York, so as to be in the possession of their Passenger Department not later than 72 hours before the scheduled date of the steamer's departure in order to insure that the accommodations thereon which have been tentatively reserved at the request of this office shall be definitely assigned. If passage money is not received as herein suggested the tentative reservations made by this office are automatically canceled, and the Panama Railroad Company will exercise without further notice the right to assign them to other intending passengers.

Passengers should sail on the date assigned unless some urgent reason makes this impossible. Persons who are unable to sail on the date assigned should notify this office and the Panama Railroad Company, so that the notice will be received at least 72 hours before the steamer sails. Passengers must call at the Panama Railroad Company's office for their tickets, preferably on the day before sailing, as

same can not be delivered at the pier.

United Fruit Company Steamer's and Army Transports—Instructions regarding remittance of passage money for those passengers assigned to United Fruit Company steamers or Army transports will be contained in the letter issued to them authorizing the transportation.

Identity Certificates—Identity certificates or passports are no longer required of American citizens going to the Canal Zone. Aliens must secure from a Consul of their country a passport authorizing their leaving the United States for the Canal

Zone.

War Revenue Stamp Tax—Passengers should be prepared to pay at the steamship office in addition to their passage money, a stamp tax on steamship tickets in accordance with the following table: (This does not apply to persons furnished free transportation at the expense of The Panama Canal.)

On tickets costing \$10 or less. No tax On tickets costing over \$10 and including \$30. \$1.00 On tickets costing over \$30 and including \$60. 3.00 On tickets costing over \$60. 5.00 Extension of Leave of Absence—This office has no authority to extend leaves of

absence of persons employed on the Isthmus nor time limits on family quarters. Persons desiring to have this office cable the officials on the Isthmus for an extension should send this office \$2.00 in cash, preferably by registered mail, to cover cost of cabling and state the reason why an extension is necessary.

A. L. FLINT, Chief of Office.

### Telegraphic Extensions.

The Central and South American Telegraph Company advises that it has purchased and is operating land lines from Arica and Tacna, Chile, to La Paz, Bolivia. A cable is being laid from Iquique to Arica and is to be in operation in March.

### Automobiles and Motorcycles.

At the end of February, 1920, there were 1,401 automobiles and trucks, and 269 motorcycles licensed in the Canal Zone, as compared with 899 and 213, respectively, on August 25, 1917. Automobile licenses are divided into three classes—for pleasure only, for hacking, or carrying passengers for hire, and for trucking. Of the 1,401 automobiles and trucks licensed, 501 are for official cars belonging to The Panama Canal, the Panama Railroad Company, and the United States Army and Navy, and 21 are reciprocal licenses for official cars belonging to the Republic of Panama, as compared with 140 and 2, respectively, on August 25, 1917. Of the 879 remaining, 308 are personal licenses, 41 are hacking licenses, and 2 are trucking licenses issued to residents of the Canal Zone, as compared with 286, 22, and 4 respectively, on August 25, 1917, 103 and 42 are reciprocal personal licenses issued to residents of Panama and Colon, respectively, and 311 and 72 are reciprocal commercial licenses issued to persons

living in Panama and Colon, respectively. The total of reciprocal licenses of all classes in effect at the end of February was 549, as compared with 445 on August 25, 1917. Of the 383 reciprocal commercial licenses above mentioned, 349 are for hacking, or carrying passengers

for hire, and 34 for trucking.

Of the 269 motorcycles licensed, 142 are for official machines belonging to the United States, and one is a reciprocal license for an official machine belonging to the Republic of Panama. Of the 126 remaining, 111 are personal licenses issued to residents of the Canal Zone, 8 are reciprocal personal licenses issued to residents of Panama, and 7 are reciprocal personal licenses issued to residents of Colon. On August 25, 1917, there were 213 motorcycles licensed in the Canal Zone, 70 of which were official licenses for machines owned by the United States, and 5 of which were reciprocal licenses for machines owned by residents of the Republic of Panama.

A resident of the Canal Zone secures his original license in the Zone. and is granted a reciprocal rate in Panama or Colon, at a reduced fee. The same holds good in the Zone for residents of Panama or Colon who have obtained the original license in Panama territory. Canal Zone licenses are issued by the Division of Civil Affairs, Balboa Heights, and no fee is accepted for less than the calendar year unless more than one quarter has expired when the license is taken out, in which case the license fee is proportioned to the part of the calendar year remaining, including therein the calendar quarter in which the license

is paid.

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Civil Service Board, Balboa Heights (telephone 286).

Assistant specification engineer (male and female); \$1,200 to \$2,000 a year; April 13, 1920; age

21 years but not 45.*
Fuel research assistant (male and female); \$1,200 to \$1,800 a year; April 13, 1920; form No. 2118; age, 35 and over.*
Junior mechanical engineer (male and female); \$1,800 a year; April 13, 1920; form No. 1312; age,

Land law clerk (male and female); \$1,000 a year; April 21, 1920; form No. 1312; age, 18 but not 45.

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington, prior to the hour of closing business on that date.

### Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Rail-coad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings, or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once.

Name.	Check No.	Native of —	Isthmian residence.	Employed by—	Date of death.
Samuel Ferguson Basilio Kromidas Joseph Yarwood alias	23676 50223		ColonColon.	Division of Locks R. & F. Agency	February 22, 1920. February 21, 1920.
Jose Diego Cardona Jose Rivera Edward M. Brainard	34966 160222 2792		Panama	R. & F. Agency Cattle Industry Mechanical Division	January 18, 1920.

### Official Circulars.

### Appointment.

THE PANAMA CANAL, EXECUTIVE OFFICE

BALBOA HEIGHTS, C. Z., February 28, 1920.

Circular No. 661-83.

1. Mr. Alfred H. Mohr is hereby appointed Deputy Collector of The Panama Canal. He will act for the Collector of The Panama Canal during such periods as he may be designated by the Governor of The Panama Canal tw perform the duties of the Collector during the Collector's absence or disability.

2. Refere authority is given him to act for the

2. Before authority is given him to act for the Collector, the required stipulation and consent agreements must be executed by the surety on the bond of the Collector.

CHESTER HARDING, Governor.

### Rate for Floating Pile Driver.

THE PANAMA CANAL, EXECUTIVE OFFICE

BALBOA HEIGHTS, C. Z., February 27, 1920.

CIRCULAR No. 686-10:

Effective March 1, 1920, a rate of \$3 an hour is established for use of the floating pile driver by departments and divisions of The Panama Canal or Panama Railroad, or other branches of the United States Government.

CHESTER HARDING. Governor.

### Charges for Chagres River Sand and Gravel.

THE PANAMA CANAL. EXECUTIVE OFFICE

BALBOA HEIGHTS, C. Z., March 5, 1920. CIRCULAR No. 711-4 (superseding Circular No. 711-3):

Effective at once, sand and gravel will be furnished at the following rates:

SAND, NO. 2 GRAVEL OR RUN-OF-BANK GRAVEL.

To departments and divisions of The Panama Canal and Panama Railroad:

F.O.B. cars Gamboa. Cu. yd.

In lots of 3,000 cubic yards, or more, per month......\$1.25 In lots of 500 cubic yards, or more, per

month. In lots of less than 500 cubic yards per

month ... Amounts per month to be the aggregate of sand

and gravel delivered.

2. To the United States Army and Navy and other departments of the Government;

Delivered at any

F.O.B. point cars on the Gamboa P. R. R. Cu. yd. Cu. yd.

In carload lots, 500 cubic yards, or more, per month......
In carloads lots, less than 500 cubic yards per month..... \$1,60 \$2.60 2.75

To individuals and companies:

Cu. yd. In carload lots delivered at any point

CHESTER HARDING,

Governor.

Accountable Official. THE PANAMA CANAL, ACCOUNTING DEPARTMENT. BALBOA HEIGHTS, C. Z., March 5, 1920.

CIRCULAR No. 229:

Effective February 24, 1920, Mr. M. F. Bradney is designated an accountable official of The

Panama Canal, vice Mr. O. M. Ewing, and as will account for the storehouse stock, Medical Storehouse, Ancon, C. Z.

ELWYN GREENE,
Acting Auditor, The Panama Canal.

### Importation of Motor Vehicles under Authority of Free Entry Requests.

THE PANAMA CANAL,

EXECUTIVE DEPARTMENT Balboa Heights, C. Z., February 19, 1920.

To all concerned—
Your attention is directed to the following rules and regulations regarding the free entry and re-

and regulations regarding the free entry and reduced freight privileges accorded employees:

1. A motor vehicle on which an employee is granted entry free of customs duty and the reduced freight rate, must be used exclu-vely for the personal use of the employee and his family.

2. An employee is not permitted to make application for free entry and the reduced freight rate to cover a motor vehicle which has been purchased from the stock of a dealer in the Parublic

chased from the stock of a dealer in the Republic of Panama, but he may import a machine through a local dealer when the imported motor vehicle goes to the employee, and is not used to replenish the dealer's stock.

the dealer's stock.

3. No motor vehicle, imported free of duty, shall be sold at any time to a person not entitled to that privilege, unless proper duty has first been paid to the Republic of Panama. In such cases the receipt for the duty paid shall be presented or forwarded to the Division of Civil Affairs, Balboa Heights, but will be returned after having been noted.

after having been noted.

4. The difference between the employees' freight rate and the full tariff rate must be paid to the Panama Railroad Company in the event a motor vehicle is imported at the reduced freight rate and is used for commercial purposes or sold to a nonemployee within a certain period after the date of the arrival of the machine on the Isthmus.

5. When a motor vehicle is imported by an employee and sold to another person immediately after arrival, or the first license on the car is taken out by a person other than the one signing the free entry request the employee is required to immediately advise the Division of Civil Affairs, Balboa Heights, of the fact that the car has been sold to another person, or that it has been licensed in the name of another person, giving the name and address of such person, the make of the car, engine number, and the date on which it

arrived on the 1sthmus.

6. To obtain a Canal Zone motor vehicle II 6. To obtain a Canal Zone motor vebicle li-cense, it is necessary for an employee living in the Canal Zone to present or forward to the Divi-sion of Civil Affairs. Balboa Heights. his copy of the approved free entry request and the required license fee, and to state the name of the car and its engine number. Persons living in Panama City, Colon, Colon Beach, or New Cristobal, are required to first license their cars in the Republic of Panama, and to forward or present a receipt for the payment of the license fee there, in addition to forwarding or presenting the free entry request and Canal Zone fee and giving the data

above referred to.

7. Forms 164-1 to 164-4, Request for Reduced Freight Rate and Free Entry are obsolete and should not be used. Form 164-5 will be in use temporarily until printing and issue of Form 164-6.

C. A. MCILVAINE, Executive Secretary.

### Joint Commission.

### Rules of Dismissal.

In the matter of the claim of The Panama Development and Manufacturing Company and Felipe Gonzalez Camarena, Intervenor for property known as Ensenada de las Minas de Sauta Rita, Rule of Dismissal No. 452, Docket No. 3056, February 9, 1920—On the 21st day of December 1914, the Panama Development and Manufacturing Company filed a claim before the Joint Commission

for \$12,500 alleging that it was the owner of 500 hectares of the lands known as "Ensenada de las Minas de Santa Rita," which the United States Government had allowed to be submerged by the

waters of Lake Gatun.

At a later date Felipe Gonzalez Camarena filed a plea of intervention with the commission claiming that he was the owner of the lands known as "Ensenada de las Minas de Santa Rita." and that the said 500 hectares formed a part thereof, and asking that if an award should be made by the Commission for said submerged land, that the amount of said award be paid to him as the owner thereof. The Commission allowed said intervenor's petition in so far as it related to the 500 hectares mentioned in the claim of the Panama Development and Manufacturing Company.

The claim of the Panama Development and Manufacturing Company was set for trial on the 25th day of November, 1919, but there was no appearance on the part of claimant nor counsel for claimant, and a rule of default was accordingly entered against it. The trial of the plea of intermetion reasonable and the plea of intermetion reasonable and the plea of intermetion reasonable and to a letter determine the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the please of the p

vention was continued to a later date.

On April 13, 1916, the Joint Commission with the approval of the two Governments, parties to the Treaty adopted a rule relative to the continuance or dismissal of claims in which the claims are not ready tor trial on the date their claims are set for hearing, or who tail to appear for hearing. This rule provides for the entering of a rule of default against claims to who fail to appear when default against claimants who fail to appear when called. This rule also provides that:

"Upon the entry of such rule of default notice thereof shall be given by four successive publica-tions, one each week, in the English and Spanish languages, in newspapers of general circulation in the Republic of Panama notifying such claimants to appear in person or by attorney within sixty (60) days from the first of said publications and show good and sufficient cause why such default should be set aside, and take active steps to prosecute their claims, and failing to so appear within sixty days from said first publication their claims will be considered as having been either settled or abandoned and the same will be dismissed and forever barred."

Due notice having been given as provided for In the above quoted section of the rule of the Commission, and there having been no appear-ance by the Panama Development and Manufacturing Company in person or by counsel during the 60-day period fixed in the rule referred to, which began on November 26, 1919, the above entitled claim in so far as it relates to the Panama Development and Manufacturing Company is

hereby dismissed.

The trial of the plea in intervention filed by Felipe Gonzalez Camarena came on for hearing Felipe Gonzalez Camarena came on for hearing on February 6, 1920. The evidence disclosed that the Panama Development and Manufacturing Company claimed title to said 500 hectares of land which are located in the Republic of Panama, under deed of August 15, 1912, whereby Catalina Arrivet V. de Cowan et al conveyed said property to the Panama Development and Manufacturing Company. The description of the land as set out in said deed expressly excludes the projected lake of Gatun, and describes the lake and public lands as the southern boundary of the property. of the property.

The Commission finds that no part of the said 500 hectares of land mentioned and described in the claim of the Panama Development and Man-ufacturing Company and referred to in the intervenor's petition, was submerged or damaged by the waters of Lake Gatun; and the Commission further finds that the United States Government expropriated no part of said land nor damaged

the same in any manner whatsoever.

It is, therefore, the unanimous opinion of the members of the Commission that the plea of intervention filed by Felipe Gonzalez Camaren

should be and the same is hereby, dismissed.

It was made to appear by the evidence introduced at the trial that a civil action involving the title to said 500 hectares of land is now pending in one of the courts of Panama in which action the Panama Development and Manufacturing Company, the Intervenor and others, are parties. The claim of the Panama Development and Manufacturing Company, docket No. 3056, and the plea of intervention filed by Felipe Gonzalez Camarena are therefore dismissed without prejudice to any claim of title asserted by said parties to the property in question in the civil action above mentioned.

FEDERICO BOYD, H. A. A. SMITH, JULIO J. FABREGA, BURT NEW, Commissioners.

In the matter of the claims of Jose H. Stilson, in which Rules of Default have been entered, Rule of Dismissal No. 453, Pocket Nos. 3062 and 3281, February 24, 1920—On April 13, 1916, the Joint February 24, 1920—On April 13, 1916, the Joint Commission with the approval of the two Governments, parties to the Treaty, adopted a rule relative to the continuance or dismissal of claims in which the claimants are not ready for trial on the date their claims are set for hearing, or who fail to appear for hearing. This rule provides for the entering of a rule of default against claimants who fail to appear when called. This rule also

provides that:
"Upon the entry of such rule of default notice thereof shall be given by four successive publica-tions, one each week, in the English and Spanish languages, in newspapers of general circulation in the Republic of Panama, notifying such claimants to appear in person or by attorney within sixty (60) days from the first of said publications and show good and sufficient cause why such default should be set aside, and take active steps to prosecute their claims, and failing to so appear within sixty days from said first publication their claims will be considered as having been either settled or abandoned and the same will be dismissed and forever barred."

On December 22, 1919, when the above entitled claims were called for hearing, Mr. C. P. Fairman, appearing as attoract for claimant in both claims.

appearing as attorney for claimant in both claims, stated in public session before the Joint Commission that he and the claimant refused to present any evidence or to take any other or further step looking toward the prosecution of said claims before the Joint Commission and thereupon the Joint Commission ordered that a rule of default be entered against Jose H Stilson in both claims. Due notice having been given as provided for in the above-quoted section of the rule of the

Commission, and there having been no appearance by claimant in person or by counsel during the 60-day period fixed in the rule referred to, which began on December 24, 1919, the foregoing claims against the United States are hereby dismissed and forever barred.

FEDERICO BOYD, H. A. A. SMITH, JULIO J. FABREGA, BURT NEW, Commissioners.

In the matter of Sundry Claims, Rule of Dismissal o. 454, Docket Numbers as shown, February 25, 1920-Direct settlement having been made with claimants by the Panama Railroad Company in the following cases the same are hereby dismissed and stricken from the docket:

Claimant. Dkt. No. Date of Payment. 5-24-1915 7-1919 6-19-1919 2799 Fahama banking Company 2740 Chong Hing Sue. 2836 Fritz Jensen. 2872 Guillermo Arias. 2873 Guillermo Arias. 2874 Guillermo Arias. 2-24-1917 2-21-1920 8-15-1919 8-15-1919 8-15-1919 2875 8-15-1919 2048 4-29-1918 2951 10-26-1917 1-24-1920 1-10-1917 2-24-1917 4-19-1917 4-21-1915

Federico Boyd, H. A. A. Smith, Julio J. Fa-Brega, Burt New, Commissioners.

In the matter of the claim of Eufracia C. de Villa-lobos, et al, in which Rule of Default has been en-

tered. Rule of Dismissal No. 455, Docket No. 3064, February 25, 1920—On April 13, 1916, the Joint Commission with the approval of the two Governments, parties to the Treaty, adopted a rule relative to the continuance or dismissal of claims in which the claimants are not ready for trial on the date their claims are set for hearing, or who fail to appear for hearing. This rule provides for the entering of a rule of default against claimants who fail to appear when called. This rule also provides that:

"Upon the entry of such rule of default notice thereof shall be given by four successive publica-tions, one each week in the English and Spanish languages, in newspapers of general circulation in the Republic of Panama, notifying such claim-ants to appear in person or by attorney within sixty (60) days from the first of said publications and show good and sufficient cause why such de-fault should be set aside, and take active steps to prosecute their claims, and failing to so ap-pear within the sixty days from said first pub-lication their claims will be considered as having been either settled or abandoned and the same will be dismissed and foreyer barred." will be dismissed and forever barred.

On November 17, 1919, when the above entitled claim was called for hearing, Mr. C. P. Fairman, appearing as attorney for claimants, stated in public session before the Joint Commission that he and the claimants refused to present any evidence or to take any aber of further step. any evidence or to take any other or further step looking toward the prosecution of said claim before the Commission, and thereupon the Joint Commission ordered that a rule of default be entered against claimants.

Due notice having been given as provided for in the above quinted section of the rule of the Commission, and there having been no appearance by claimant in person or by counsel during the 60-day period fixed in the rule referred to which he gan on December 24, 1919, nor before Febru. 24, 1920, to which date the period of details and been extended, and claimants having failed to appear and show good and sufficient ing fail d to appear and show good and sufficient cause for setting aside the default, the foregoing claim against the United States is hereby dis-missed and forever barred.

FEDERICO BOYD, JULIO J. FABREGA, H. A. A. SMITH. BURT NEW. Commissioners.

### Certificate of Disagreement.

In the matter of the claim of Francisco Filos and Isabel N. Hernandez, for property known as Cuatro Caminos. Certificate of Disagreement, Rule No. 456, Docket No. 30-16, February 27, 1920—Pursuant to the provisions of Article XV of the Treaty between the United States of America and the Republic of Panama, ratified February 26, 1904, the Commission hereby desires to bring to the notice of the Umpire duly appointed under the said Treaty that the Commission has been unable to reach an agreement in the above entitled matter on the following, to wit:

### The Questions of Liability and Time.

The Commission herewith certifies this disagreement to the Umpire appointed under the Treaty as provided for in Article XV thereof. Done at the National Palace, Panama, this twenty-seventh day of February, 1920.

FEDERICO BOYD, H. A. A. SMITH, JULIO J. FA-BREGA, BURT NEW, Commissioners.

### Sale of Clapet No. 7.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10.30 a. m., March 20, 1920, and then opened, for the purchase of clapet No. 7, located at Gatun. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

### Sale of Tug "Miraflores."

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10.30 a. m., March 22, 1920, and then opened, for the purchase of the tug Mirafores, Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

### Shipping Commissioner's Sale.

The Shipping Commissioner, room 305, Administration Building, Balboa Heights, will accept written bids up to noon Monday, March 15, 1920, for the purchase of portions of the personal effects belonging to the estates of Stanley C. Evans, Anton Olsen, Robert Park, Antonias Johanas Verslys, and Frank C. Wilson, deceased American seamen. Itemized lists of the articles offered for sale will be found posted at the Canal American seamen. Itemized lists of the articles offered for sale will be found posted at the Canal Zone customs offices, post offices, and clubhouses; and persons desiring to examine the effects should apply to the Shipping Commissioner's Office on any business day. Bids may be made for the entire lot of the effects of each decedent, or be !imited to individual articles, and should be submitted in sealed envelopes addressed to the Shipping Commissioner, marked "Bid on effects of (insert name of seaman), deceased." The right is reserved to reject any or all bids, and no advance deposit of money is required.

### Current Net Prices on Coal, Fuel Oil, and Beef.

Coal is being supplied to steamships, including Coal is being supplied to steamships, including warships of all nations, delivered and trimmed in bunkers, at \$13.50 per ton of 2,240 pounds at Cristobal and \$15.50 at Balboa. For ships in transit through the Canal, which are directed to take coal at Balboa, for the convenience of The Panama Canal. \$13.50 per ton at Balboa. For ships taking less than carload lots from plants or less than 25 tons from lighters, the price is \$15 per ton at Cristobal, \$17 at Balboa. Crude fuel oil is delivered to vessels at either Cristobal or Balboa for \$1.50 per barrel of 42 gallons.

Diesel oil is not sold by The Panama Canal, but may be obtained from private concerns at approximately \$3 per barrel. Cable arrangement should be made in advance of arrival of vessel.

The following are current prices on fresh beef sold from the cold storage plant of the Canal. Prices quoted are United States currency, per

pound net: Beef hinds, 19 cents; beef fores 14 cents; beef ribs, entire set, 20 cents; short loins, 25 cents. This beef is from Colombian cattle, daughtered on the 1sthmus.

### Additions to Commissary Stock.

Dry Goods Section.	
Towels:	
Huck, linen, H. S., 20" x 36", ea	\$0.90
Huck, linen, H. S., 22' x 40', ea	1,10
Huck, linen, H. S., 24" x 40", ea	1.25
Huck, linen, H. S., 20" x 36", ea,	.71
Weights:	
Lead, for dresses, ‡", doz	.04
Lead for dresses, 11", doz	.07

### Cable Address of The Panama Canal.

The cable address of The Panama Canal, on the Istamus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

Mail for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

### THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

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 The Panama Canal Record, Balboa Heights, Canal Zone, or
 The Panama Canal, Washington, D. C.
 Entered as second-class matter, February 6, 1918, at the Post Office at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., March 17, 1920.

No. 31.

### The "Olockson" on Fire.

The steamship *Olockson* sent an aerogram on March 13 that she was on fire off the Panama coast about 150 miles from the Pacific entrance of the Canal. The U. S. S. *Tacoma*, and the *Salvador* of the Pacific Steam Navigation Company, brought the crew to Balboa, and the Panama Canal tug *Gorgona* was sent out to tow the ship to Balboa, if this proved possible. The job is a difficult one and the master of the *Gorgona* was given full authority to act as seemed best; whether to bring the ship into port or beach her. It is expected that the *Gorgona* with her tow will arrive at the Pacific entrance to-morrow morning.

The Olockson is owned by the United States Shipping Board and operated by the Barber Steamship Lines. She is of 3,729 net tons, and was bound from Philadelphia to Yokohama with a cargo of steel

and gasoline.

### Fire on the "Marne."

The steamship Marne which was sunk in Cristobal harbor on January 24 and again on March 6, both times to extinguish fire in her cargo, is still burning, but the fire is almost extinguished. The bow is still afloat. Arrangements for raising the vessel are in progress.

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending March 13, 1920.

				Care	до—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Guatemala Caribbean Panama Median Imperial Salvador Calamares Heredia Lake Festine Gen. O. H. Ernst Victoria	Pacific Steam Navigation Co Panama Railroad Cattle Industry. Panama Railroad Steamship Line. Loyland Line Chilean Steamship Line. Pacific Steam Navigation Co United Fruit Co. United Fruit Co. United States Shipping Board. Panama Railroad Steamship Line. Pacific Steam Navigation Co	March 7. March 8. March 8. March 8. March 9. March 9.	March 7. March 7. March 8. March 8. March 9. March 12. Murch 9. March 10. March 10.	543 (*) 177 3,552 654 44	Tons. 592\frac{1}{2} 16 3,063 2,087 681 763\frac{1}{2} 27 187 (†)
San Juan Haiti Huallago Jamaica Cauca Palena Gen. W. C. Gorgas. Ancon Peru Harold Walker Tivives Caribbean Mantaro Allianca Teviot.	Pacific Mail Steamship Co- French Line	March 9. March 10. March 10. March 10. March 10. March 10. March 11. March 11. March 12.	March 13.  March 11.  March 12.  March 11.	719 1,053 1,549 2,244 5,446 9,000 4 ¹ / ₄ 350 2,233	1,803 275½ 615 706 (†) (†) (†) 6

### Slide at Cucuracha.

A movement in the old slide at Cucuracha in Gaillard Cut on the afternoon of February 22 resulted in about 4 hours' delay in the transit of one ship on the following day. All other vessels made the transit without delay. Two dredges were set at work and from that time until March 13 no delay was experienced by ships in passing through "the Cut." On the night of March 12 there was a further movement and as a result ships drawing 25 feet or more were delayed on the following day. These ships were passed through on March 14 and 15 and there has been no delay since.

### Income Tax Returns.

The following excerpts from Circular 2195 issued July 18, 1919, are published for the information of employees:

"6. An American citizen applying for a sailing permit should satisfy the Internal Revenue Agent in charge that he has paid all installments of income tax due up to the date of departure and has made arrangements for the payment of future installments as they become due. 

* * * The sailing permits will be printed on special paper so they may not be easily duplicated and will be readily distinguished by the Revenue Agent at the port of departure.

"8. In accordance with an agreement with the officials of steamship companies, which operate ships entering into United States ports, steamship officials will require persons applying for over-stamping of tickets to produce a sailing permit signed by the proper Internal Revenue officer. The Internal Revenue Agent in charge will assign a sufficient number of his force to inspect the permits at the pier on days of sailing.

It is also suggested that persons on the Isthmus making a Return and paying taxes should request the Collector of Internal Revenue to whom payment is made to furnish a receipt.

### Prices of Miscellaneous Supplies.

The following are prices to individuals and companies, including the 25 per cent surcharge and were effective February 1, 1920:

Commodity.	Unit.	Price.
Brass, bar		\$0.375
Brass, sheet	Lb.	. 5625
Bronze, Tobin	Lb.	.375
Cement, at Panama:	D	
Departments of United States Government (includes surcharge and bags)		1.1925
Credit for empty bags returned		. 085
Individuals and companies (includes surcharge and bags)	Bag	1.765
Credit for empty bags returned.	Bag	. 25
Cement, at Colon:		
Departments of United States Government (includes surcharge and bags)	Bag	1.0475
Credit for empty bags returned.	Bag	. 085
Individuals and companies (includes surcharge and bags)		1.58
Credit for empty bags returned.		. 25
Charcoal	Cwt.	9375
Copper, bar,:	Lb.	.50
Gasoline, in drums (motor grade)	Gal.	.475
Lead, sheet.		. 125
Lead, pig.	Lb.	10
Lumber, ceiling, siding, and flooring, I" by 6"	M ft. B. M.	95.19
Lumber, flooring, 1" by 3" and 1" by 4"	M ft. B. M.	100.00
Lumber, yellow pine or fir (except ceiling).	M ft. B. M.	83.56
Metal, yellow.	Lb.	.375
Nuts, iron, machine, bexagonal	Lb.	. 225
Nuts, iron, machine, square		. 1875
Nails, common, wire		.0625
Nails, galvanized		.0875
Oakum, Navy, spun		.20
Oakum, Navy, unspun.		.20
Oil, fuel, at Balboa and Cristobal—in bulk:		
United States Army and Navy, and vessels operated by same	42-gal, bol.	1.50
Commercial vessels and individuals and companies		1.50
Individuals and companies from tank No. 116, Balboa		1.54

Commodity.	Unit.	Price.
l, fnel, at Balboa and Cristobal—in drums and barrels:		
United States Army and Navy and vessels operated by same.  Commercial vessels and individuals and companies.	42-gal. bbl.	\$1.7
Commercial vessels and individuals and companies	42-gal. bbl.	1.7
ls. greases, and lubricants:	Gal.	. 62
Oil, air compressor cylinder.	Gal.	. 43
Oil, ammonia cylinder. Oil, burning. Oil, cylinder, dark marine.	Gal.	1.33
Oil cylinder dark marine	Gal.	.81
Oil, cylinder, dark marine. Oil, cylinder, dark marine. Oil, cylinder, ice machine, steam.	Gal.	1.2
Oil, cylinder, ice machine, steam	Gal.	1.0
Oil, engine, dynamo	Gai.	.78
Oil opging—in ting	l Cal	.68
Oil, engine—in barrels. Oil, gas engine, extra heavy—in drums. Oil, gas engine, heavy—in barrels. Oil, gas engine, heavy—in cases.	Gal.	.56
Oil, gas engine, extra heavy—in drums	Gal. Gal.	.53
Oil, gas engine, neavy—in parrers	Gal.	.87
Oil, gas engine, medium—in drums.	Gal.	.56
Oil, kerosene—in drums	Gal.	.00
Oil bergene—in tine	Col	.31
Oil, linseed, boiled Oil, linseed, raw Oil, locomotive engine	Gal.	2.
Oil, linseed, raw	Gal.	2.56
Oil, locomotive engine	Gal.	
Oil, lard	Gal.	2.3
Oil, marine engine	Gal.	1.1
Oil, marine engine	Gal. Gal.	.6
Oil, marine engine	Gal.	.43
Oil, marine engine. Oil, marine engine. Oil, "Mineral Scal". Oil, nonliquid.	Gal.	.31
Oil popliquid	Lb.	.01
Oil, stationary engine	Gal.	.3
Oil, sperm	Gal.	2.8
Oil. signal	Gal.	1.3
Oil, valve Oil, ear.	Gal.	١.
Oil, ear	Gal.	.2
ax, lamp	Lb.	
rease, black, gear rease, yellow, cup, No. 3 rease, yellow, cup, No. 5.	Lb.	.0
rease, yellow, cup, No. 3	Lb.	.1
rease, yenow, cup, No. 5	Lb.	.13
rease tunnel hearing	Lb.	
rease, tunnel bearing.	Lb.	.2
urpentine	· Gal.	2.
arpentine substitute	·  Gal.	.46
agolino	1 T L	.11
int, lead, white, dry. int, lead, white, dry. int, zinc, white, dry. int, zinc, white, in oil. int, zinc, white, in oil. int, zinc, white leaded, 35 per cent in oil.	· Lb.	.1
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aint, zinc, white, dry	· Lb. · Lb.	.2
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ope, Manila, 3" diameter	. Cft.	77
ope, Manila, 3½" diameter	. Cft.	102
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icer, structural (angles, deams, etc.)	Lb.	0
in, Banca.	Lb.	.6
in, sheet.	Lo.	.9
Vashers, cut	. Lb.	.0
Vashers, cut. Vaste, colored	Lb.	.2
	7.1	
Vaste, white. inc, boiler plate, {*' by 6'' by 12''	Lb.	

### Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

### MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight March 13, 1920.

	Panama Canal Tonnage	Net	104 15.313 15.313 15.313 15.313 15.313 15.313 15.313 15.313 15.313 15.313 15.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.313 17.31	
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PORT OF CRISTOBAL,

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	For.	New York. Cartagena, Norfolk. Pensacola. Cartagena.	(Continued on page 449, column 2.)
*DEPARTURES.	Line,	Astoria Mahogany Co	(Continued on p
	Vessel.	Astmacho III. Caribbean. Achilles. Beaumont. Lake Gilboa.	
	Date.	March 7 March 7 March 7 March 8	
	From.	Kingston. New York and wayports. New Orleans New York and Haiti. Santiago.	
*ARRIVALS.	Line,	United States Shipping Board. Kingston.  United Fruit Co. Punted Fruit Co. Punted Fruit Co. Punted Fruit Co. New Orleans. March 7. Achilles. Puntanan Railred States Shipping Board. Santiago. Santiago. Santiago.	
	Vessel.	Lake Gilboa. Calamares. Heredia. Gen. O. H. Ernst. Salmon	
	Date.	March 7 March 8 March 9 March 9	

### Weather Conditions in February, 1920.

The month of February was the driest on record for the Canal Zone and vicinity, totals ranging from no rain at Miraflores to 1.61 inches at Porto Bello. The greatest amount of rainfall on any one day was 0.32 inch at Gatun on the 13th and at Porto Bello on the 15th. Heavy rains occurred near Bocas del Toro. In the Talamanca Valley 9 inches of rain fell during the 24 hours ended at 6 a.m. February 28.

The estimated rainfall over Gatun Lake watershed was 0.44 inch, compared with a 10-year mean of 1.82 inches, and over the Chagres River basin above Alhajuela

it was 0.74 inch, compared with a 19-year mean of 1.63 inches.

The air temperature and wind movement were near the normal, while the atmospheric pressure, relative humidity, and daytime cloudiness were below the average. The temperature of the sea water was below normal on the Pacific Coast, and above on the Atlantic. The evaporation was generally above the normal.

No fogs were observed during the month.

The average hourly wind movement at Cape Mala was 23 miles, prevailing direction north, and maximum velocity 44 miles an hour from the north on February 8.

Light seismic tremors were recorded on the 2d, 7th, 10th, and 28th of the month. Gatun lake hydrology-Mean elevation of Gatun Lake was 85.26 feet, maximum, 85.95 feet on the 1st, minimum, 84.56 feet on the 29th, evaporation from Gatun Lake surface, 6.552 inches, rainfall on Gatun Lake drainage basin, 0.44 inch, total yield of Gatun Lake watershed 0.58 inch on watershed. The total yield amounted to 132 per cent of the rainfall.

The following table gives a summary of the weather conditions for the month:

	Pressure (reduced to mean of 24 hours).	Temperature.				Precipitation.			Wind.						
Stations.		Mean.	Maximum.	Date.	Minimum.	Date.	Mean relative humidity.	Total inches.	Station average.	Days with .01 inch or more.	Total move- ment (miles).	Prevailing direction.	Maximum velocity in miles.	Direction.	Date.
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### Official Circulars.

### Enemy Aliens.

THE PANAMA CANAL, EXECUTIVE DEPARTMENT. BALBOA HEIGHTS, C. Z., March 9, 1920. Revised Travel Regulations.

To all concerned-Under instructions from the State Department no enemy aliens will be allowed to pass through the Canal Zone unless they are in possession of passports properly visaed by the American Consular officer at port of departure

These instructions are in addition to the requirements contained in notice to all concerned of January 30, 1920.

CHESTER HARDING. Governor.

### Purchases from Enlisted Men Forbidden.

THE PANAMA CANAL,

EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., March 12, 1920.

To all concerned—Complaints have recently been received in this office of instances of Panama Canal and Panama Railroad employees purchasing Covernment clothing and other property. ing Government clothing and other property from enlisted men. This practice is unlawful, and in this connection your attention is invited to the provisions of the Executive Order of the President of November 15, 1911, from which the following is quoted:

following is quoted:
"Section 1. Whoever shall knowingly purchase or receive in pledge for any obligation or indebtedness from any soldier, officer, sailor, or other person called into or employed in the military or naval service, any arms, equipment, am-

munition, clothes, military stores, or other public property, whether furnished to the soldier, officer, property, whether furnished to the soldier, officer, sailor, or person under a clothing allowance or otherwise, such soldier, officer, sailor, or other person not having a lawful right to pledge or sell the same, shall be fined not more than five hundred dollars, and imprisoned in jail not more than two years; and the Circuit Court of the Circuit wherein such supplies or equipment may have been unlawfully purchased or received in pledge shall have jurisdiction of the offense."

There is also quoted below my circular of May 21, 1919, which is repeated for your information and guidance:

"Attention is invited to the following Section

'Attention is invited to the following Section

"Attention is invited to the following Section No. 1247 of Army Regulations, prohibiting the sale or barter of supplies purchased or drawn from the Army Commissaries:

"Post Commanders will regulate sales and delivery of supplies. Selling (except by the Post Exchange) or bartering of supplies purchased or drawn from the Quartermaster is forbidden."

Employees of The Panama Canal and Panama Railroad Company are cautioned against being parties to violations of the foregoing regulations. Any employee found guilty of such practice should be reported to this office for disciplinary action. action.

CHESTER HARDING. Governor.

### Board of Admeasurement.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., March 10, 1920.

CIRCULAR No. 660-50:

Subject to revision by the Governor, the Board of Admeasurement is charged with supervision

bours greater than 12 are postmeridian

all

on the 24-hour basis and

Hours are expressed

Other than ships passing through the Canal.

of the "Rules for the Measurement of Vessels for The Panama Canal," promulgated by the President's Proclamation of November 21, 1913;* and of all questions of interpretations arising thereunder.

CHESTER HARDING,

*Published as Panama Canal Circular No.

### Foremen's Orders.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT, BALBOA HEIGHTS, C. Z., March 6, 1920.

CIRCULAR No. 231:

To all concerned—It has been brought to my attention that little or no effort is made by storekeepers and district quartermasters in seeing that Foreman's Orders presented are signed by employees duly authorized to do so. The practice of unauthorized employees signing Foremen's Orders must be discontinued, and storekeepers and district quartermasters will, in future, refuse to fill orders not signed by an authorized employee.

ELWYN GREENE, Acting Auditor, The Panama Canal

### Superintendent, Northern District, Municipal Engineering Division.

THE PANAMA CANAL,

DEPT. OF OPERATION AND MAINTENANCE, BALBOA HEIGHTS, C. Z., March 11, 1920. All concerned—Effective this date, Mr. A. C. Miller is appointed Superintendent of the Northern Municipal District, vice E. H. Chandler.

D. E. WRIGHT, Municipal Engineer.

### Misdlrected Letters.

The following insufficiently addressed mail has been received in the office of the Director of Posts and may be obtained upon request of the addressee. Such request may be made by telephone, calling No. 182, Balboa:

Beneby, Albrin*
Berkey, F. E.
Blackman, Mrs. Mary
Boomer, G. M.†
Bourjeois, James Brady, Mrs. J. C. Custed, W. D. Gowan, Mrs. Jno. † Hall, James D.

Johnston, Zacchias G. Maulvi, Wm.* Ivy, John Post, Truman M. Seebt, Mrs. J. Sullivan, James P Wikstrom, John N. Young, Mrs. Byron

Special delivery. †Paper.

### Current Net Prices on Coal, Fuel Oil, and Beef.

Coal is being supplied to steamships, including Coal is being supplied to steamships, including warships of all nations, delivered and trimmed in bunkers, at \$13.50 per ton of 2,240 pounds at Cristobal and \$15.50 at Balboa. For ships in transit through the Canal, which are directed to take coal at Balboa, for the convenience of The Panama Canal, \$13.50 per ton at Balboa. For ships taking less than carload lots from plants or less than 25 tons from lighters, the price is \$15 per ton at Cristobal, \$17 at Balboa.

Crude fuel oil is delivered to vessels at either Cristobal or Balboa for \$1.50 per barrel of 42 gallons.

gallons.

Diesel oil is not sold by The Panama Canal, but may be obtained from private concerns at approximately \$3 per barrel. Cable arrangement should be made in advance of arrival of vessel.

The following are current prices on fresh beef sold from the cold storage plant of the Canal. Prices quoted are United States currency, per

Prices quotes are pound net:

Beef hinds, 19 cents; beef forcs, 14 cents; beef ribs, entire set, 20 cents; short loins, 25 cents. This beef is from Colombian cattle,

# MOVEMENTS OF OCEAN VESSELS.—Continued from page 447.—PORT OF CRISTOBAL—Continued

*DEPARTURES.	March 8.         Panama         Panama Railroad Steamship Line.         New York.           March 8.         Metapan.         United Fruit Co.         New Orleans.           March 9.         Calamares.         United Fruit Co.         New Orleans.           March 10.         Santa Leonera.         United Fruit Co.         New Orleans.           March 10.         Haid.         New Orleans.         New Orleans.           March 10.         Haid.         New Orleans.         New Orleans.           March 11.         Linda S. (J).         Pirrent Line.         Pherto Colombia.           March 11.         Arbia (P.         New York and wayports.           March 12.         Arbia (J).         New York and wayports.           March 13.         Par-American Pet. and Transp. Co.         Colon.           March 12.         Panama Railroad Steanship Line.         New York.           March 12.         Panama Railroad Steanship Line.         St. Thomas.	March 12,   Lina   Lina   Penvian Government.   Paita.   Paita.   March 12,   Lina   Parita.   Parita.   Toyo Kisen Kaisha   Valparaiso.   March 13,   Lahra C. Hall   Parific Metals Corporation   Tunaco.   March 13,   Lake Fabyn.   United States Shipping Board.   Yokohama via Honolulu.
* ARRIVALS.	March 10. Gen. W. C. Gorgas. Panama Railroad Steamship Line. New York.  March 10. Harold Warker Para-American Pet. and Transp. Co Tampico.  March 10. Linda S. (f) Panama Railroad Steamship Line. New York.  March 10. Linda S. (f) Surgeon Brothers.  March 11. Twives. W. W. Newellson.  March 11. Caribbean. Panama Railroad Cattle Industry. Cartagena.	(f) Auxiliary schooner.         PORT OF BALBOA           March 7.         Kiyo Maru.         Toyo Kisen Kaisha.         Hongkong via San Fran.         March March March March March Illustrates Fran.         March March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Illustrates Fran.         March Il

### Rainfall from Feb. 1 to Feb. 29, Inclusive.

STATIONS.	Maximum in one day.	Date.	Total.
Pacific section— Balboa Heights	Ins. T	28 5,17,21	Ins. T
Miraflores Pedro Miguel Rio Grande Central section—	0.07	27 27	0.07
*Culebra. *Camacho. Empire	.06 .05 .03	27 27 27	.10 .05 .05
Gamboa *Juan Mina Alhajuela *Vigia	.07 .07 .09	27 27 27 27	.10 .12 .15
Darien *Trinidad *Monte Lirio Atlantic section—	.14 .25	27 20 27	.12 .40 .71
Gatun. *Brazos Brook. Colon. †Bocas del Toro.	.32 .30 .31 3.48	13 14 13 29	1.00 .56 .54 13.58
Porto Bello	.32	15	1.61

^{*}Standard rain gauge—readings at 5 p. m. daily. Automatic rain gauge at unstarred stations—values, midnight to midnight. †Standard rain gauge—readings at 8 a. m. daily.

February Rainfall for Three Years.

		INCHES						
Stations.	1920	1919	1918	Station average.	Years of record.	Rainy days, 1920.		
Pacific section— Balboa Balboa Heights Miraflores Pedro Miguel . Rio Grande Central section—	T T .07 .05	0.06 T	.02 .12	0.57 .77 .93 .63 .64	21 22 12 13 16	1 2		
Culebra Camacho Empire Gamboa Juan Mina Alhajuela Vigia	.10 .05 .05 .10 .12 .15 .13	.05 .21 .24 .21 .04 .04	.10 .02 .02 .07 .96 .14	.63 .78 .69 .82 1.08 .71 1.40	30 14 15 35 10 21 12	4 1 3 3 5 5		
Frijoles Trinidad Monte Lirio Atlantic section—	.40 .71	.52 .34 1.15	.24 .37 .76	1.96 2.34 2.93	9 13 13	8		
Gatun	1.00 .56 .54 1.61	.54 .70 .36 1.58	.53 1.00 .67	2.58 2.88 1.62 3.35	16 14 50 9	14 9 10 17		

### COMMISSARY NOTES.

### Easter Novelties.

Easter cards have been distributed to the commissaries at Ancon, Balboa, Cristobal, Pedro Miguel, and Gatun. These stores will also offer for sale on Monday, March 22, Easter novelties, such as chicks, rabbits, eggs, baskets, chick houses, etc.

### Hot Cross Buns.

Responsive to requests from a number of customers, hot cross buns will be baked for delivery to the commissaries April 1. Persons desiring will please place orders at their commissaries in order that requirements may be more accurately estimated.

### Potatoes.

Wholesale quotations from New York seem to indicate that the price of potatoes will advance markedly. It is stated that the poor potato crop last year coupled with the railroad freight embargo caused by weather conditions is the probable reason for the situation.

### Nutmargarine.

Nutmargarine will in future be sold only over the counter in the retail comnussaries, except when customers desiring delivery will agree not to return it for exchange. This product is a vegetable fat and will not hold up, as a rule, longer than an hour outside of refrigeration.

### Advanced Prices.

Advices from a firm in Japan of which the Commissary Division purchases a number of items contain notification of various advances in the prices of articles manufactured in that country. Brushes have increased 20 per cent and silk 74 per cent and there is said to be nothing in the present situation to encourage the hope of any decline in the first half of this year.

# THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

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at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., March 24, 1920.

No. 32.

#### The Slide at Cucaracha.

A movement of the slide at Cucaracha in Gaillard Cut on the night of March 20 delayed vessels transiting the Canal. Vessels will be able to complete the transit on the morning of the 25th. There will be an improvement in conditions from this time until the next movement, the date of which it is impossible to predict. The permanent equilibrium, disturbed by the initial movement of February 22, will not be restored until several repetitions of the shoaling and clearing process have occurred.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending March 20, 1920.

				Carg	0-
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Caribbean. Arabia. Gen. O. H. Ernst. Cauca. Palena. Pastores. Parismina. Mantaro. Gen. W. C. Gorgas. Atenas. Teviot. Saint Andre. Ancon. Ucnya'i. Oriana. Newport. Caribbean.	Panama Railroad Cattle Industry. San Blas Trading Corporation. Panama Railroad Steamship Line. Pacific Steam Navization Co. Chilean Steamship Co. United Fruit Co. United Fruit Co. Peruvian Line. Panama Railroad Steamship Line. United Fruit Co. Royal Mail Steam Packet Co. French Line. Panama Railroad Steamship Line. Panama Railroad Steamship Line. Pacific Steam Navigation Co. Pacific Mail Steamship Lir e Panama Railroad Cattle Industry.	March 15  March 16  March 16  March 16  March 16  March 17  March 17  March 18.	March 14 March 15 March 15 March 15 March 15 March 15 M r sh 16 March 16 March 16 March 18 March 18 March 19 March 19 March 19 March 19	Tons. (*) 447 70 1,374 239 1,631 2 2,065 2,50	Tons. † 215 30 3,431 1,065 312 (‡) 152 3,806 74 2,837 (‡) 11,093
Santa Marta Colon Balboa Ulysses Manavi		March 19 March 19 March 20	March 19	2,619 503 12,015	5

^{*} No cargo discharged.

† Pounds.

‡ No cargo laded.

# Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Falboa for Two Weeks Ending March 20, 1920.

	**			Cargo—		
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.	
Rosalie Mahoney. Salvador. Guatemala. Kiyo Maru Jamaica. San Juan Laura C. Hall. Ansaldo III. West Cayote Teviot. Ansaldo III F. D. Asche. Lady Sybil. Ucayali. Newport. Manavi. Point Adams	Fred Lindenman of San Francisco. Pacific Steam Navigation Co. Pacific Steam Navigation Co. Toyo Kisen Kaisha. Pacific Steam Navigation Co. Pacific Mail Steamship Co. Pacific Mail Steamship Co. Pacific Matals Corporation. National Navigation Society. United States Shipping Board. Royal Mail Steam Packet Co. National Navigation Society. Standard Oil Co. International Petrolcum Co. Peruvian Steamship Co. Pacific Mail Steamship Co. Pacific Mail Steamship Co. Pacific Steam Navigation Co. Pacific Steam Navigation Co.	March 7 March 9 March 10 March 10 March 12 March 12 March 12 March 12 March 15 March 15 March 16 March 16 March 16	March 7 March 11 March 19 March 10 March 13 March 13 March 13 March 14 March 16 March 16 March 17 March 19	73 6 1,649 5 5 46 1,045 136 11,500 8 183 10		

## Trial Trip of the "Cristobal."

The steamship *Cristobal* of the Panama Railroad Steamship Line, which is being overhauled and extensively rebuilt at Balboa shops, underwent a trial trip on March 21, affording a test of boilers, engines, steering gear, anchor hoists, etc., and giving opportunity to correct the compasses. It was a test of a coordinated ship, and in all respects satisfactory. The *Cristobal* was placed in dry dock on the following day for the semiannual cleaning and painting, and is to be given stability tests in the evening of March 24, after which she will leave the dry dock and be given final touches preparatory to clearing for New York. On this voyage she will not carry passengers.

# Salvaging the "Olockson."

The steamship *Olockson* which was reported by wireless on March 13 afire off Morro Puercos, beyond Cape Mala, was taken in tow by the Panama Canal tug *Gorgona* at about 10 a. m., Sunday, March 14, approximately in latitude 7° 12′ N. and longitude 80° 20′ W., about 35 miles southwest by south of the light on Cape Mala. She had been abandoned by her crew. They had taken to the lifeboats, and had been picked up by the steamer *Salvador*, from which they were transferred to the United States cruiser *Tacoma*, which had gone out in response to the calls from the *Olockson*, reaching her in the afternoon of March 13, but not attempting to take her in tow on account of the explosions then occurring in the cargo. The fire had been burning

about 28 hours when the tug took the ship in tow.

The Gorgona made fast with 250 fathoms of  $1\frac{1}{2}$ -inch steel cable, and started back to Balboa with the blazing ship in tow. The Olockson sheered badly, at times as much as 90 degrees from the line of the tow, so that the cable was broken four times. The ship was a mass of flames, the heat was intense, and for a part of the time it was impossible to make fast to her bow, and the cable was attached to the poop, towing the ship stern foremost. In going alongside to put men aboard to make fast the cable, the tug lost both her ladders by breaking and afterwards it was necessary for men to climb aboard by cables, sometimes finding it so hot that they could not stay. At frequent intervals explosions occurred among the drums of gasoline in the cargo, and flames would shoot up as high as 200 feet in the air. Altogether, the 6 officers and crew of 25 on the Gorgona had a strenuous struggle, and their work in bringing the ship in is considered a piece of splendid seamanship.

The Gorgona and tow reached the outer harbor at Balboa about 6 in the evening of the fourth day, Wednesday, March 17. The Olockson was beached off Changarme Rock, in a bed of soft material dumped by barges from the excavation in the Pacific entrance channel. The water was then at about half tide, and falling. At low tide men from the Mechanical Division cut holes about 10 or 12 inches square at the surface of the water into each hold and the engine room. Oxy-acetylene

torches were used for the cutting.

When the tide rose it filled the interior of the ship to the level of high water, protecting part of the structure and cargo and assisting the work of the fire-fighters. A force under the direction of the captain of the Balboa fire station worked incessantly on the fire during the high water periods, cooperating with the crew of the *Gorgona*. Seven streams of water were played on the flames, but the only way to extinguish the fire was to flood it. When the water from the tide had reached its high-

est level, a diver closed up the holes in the hull by fixing plates over them, and with the help of the water thrown on the flames from above by the firemen the fire was extinguished on March 21, at 5.30 in the The total time of actual fire-fighting was 23 hours and afternoon. 15 minutes.

The sea water found access to the oil fuel tanks of the Olockson at high tide and, being heavier than the oil, forced it through the vent pipes to the surface, where it became ignited and added to the difficulties of the situation. Wooden plugs were driven in the vent pipes

to stop the flow of oil.

Directly after the fire was extinguished the plates which covered the holes in the hull were removed, to lighten the weight on the ship and prevent her sinking deeper in the mud. Pumps are being made ready on lighters and as soon as the men are ready to begin pumping the plates will be replaced over the holes at low tide. With vigorous pumping it is expected to lighten the ship enough to float her when the tide rises. As she lies now the deck is awash at high tide, It is expected to unload the cargo from the Olockson into lighters, and not to bring her into dock until unloaded, on account of the further fire risk.

# Freight Tariff to South Pacific Ports.

The Panama Railroad Company has issued its freight classification and tariff No. 35, publishing class and commodity rates from New York to Pacific ports of Colombia, Ecuador, Peru, and Chile, over the Panama Railroad Steamship Line and connecting carriers, effective February 27, 1920, and canceling classification and tariff No. 28, with supplements. The ports for which rates are quoted are Buenaventura and Tumaco, Colombia; Esmeraldas, Cayo, Bahia de Caraquez, Ballenita, Manglar Alto, Manta, Machalilla, Puerto Bolivar, and Guayaquil, Ecuador; Huanchaco, Supe, Eten, Payta, Pacasmayo, Salaverry, Pisco, Chimbote, Samanco, Casma, Huacho, Pimentel, Huarmey, Callao, Cerro Azul, Lomas, Chala, Tambo de Mora, Mollendo, and Ilo, Peru; Arica, Pisagua, Caleta Buena, Tocopilla. Taltal, Iquique, Valparaiso, Talcahuano, Antofagasta, Chanaral, Gatico, Lota, Caldera, Coquimbo, Coronel, Penco, Tome, and Fuasco, Chile. Steamers sail from Pier No. 67, North River, New York, at the foot of West 27th Street, about every sixth day, at 3 p. m. Freight is received up to 5 p.m. two days prior to sailing.

Copies of the freight classification and tariff may be obtained from the Panama Railroad Company at Balboa Heights, Canal Zone, or

24 State Street, New York.

# Cable Company Changes Name.

The name of the Central and South American Telegraph Company has been changed to "All America Cables, Incorporated," by authority of the State of New York.

# Prices of Miscellaneous Supplies.

The price list of miscellaneous supplies published in last week's issue is effective March 1, instead of, as stated, February 1, 1920.

#### Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight March 20, 1920.

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		Gross	
	E		
	00.10	29	Coal  Iron and cotton.  General  General  General  General  Hosphate, cotton  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General  General
	FOR		Antofagasta Antofagasta Ban Francisco Darien Darien Alparasso San Piego San Diego San Diego San Francisco Honolulu San Francisco Honolulu Francisco Honolulu Francisco Honolulu Honolulu Honolulu Honolulu Honolulu Honolulu Honolulu Honolulu Honolulu Honolulu Honolulu Kew Zealand New Zealand New Zealand Yokohama San Rego Yokohama San Pego Coronel Guayaquili Galeta Buena Volcopalla Taleshuano Coronel Guayaquili Galeta Buena San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego San Diego
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#### New Edition of Chart of Colon Harbor.

A new edition of chart No. 950 of Colon Harbor, drawn to a scale of 1 to 15,000, and 28 by 35 inches in dimensions, is on sale at the Hydrographic Office in the Terminal Building at Cristobal, at 50 cents per copy. The new edition shows corrections and additions based on late surveys; the principal changes are in the vicinity of the water front of Colon, near Cristobal mole, in the inner harbor, and along the southern shore line of Limon Bay.

# Concrete Ship Repaired at Cristobal.

The concrete ship Cape Fear passed through the Canal on the way from Norfolk to Iquique, on March 20. At the time of transit she was in ballast, but in coming from Norfolk she brought 2,878 tons

of coal for delivery to the Canal plant at Cristobal.

While at Cristobal the *Cape Fear* underwent hull repairs made necessary by a slight collision. She was made fast at the slip at the entrance to the dry dock, and a cofferdam was built around the small section of hull affected, by the Mechanical Division forces. After the water had been pumped out, forces of the Building Division placed the necessary concrete to make good the damage. The *Cape Fear* is a ship of 2,795 gross and 1,695 net tons, 286 feet long by 46 feet beam, and was drawing 25 feet of water when she reached Cristobal.

The Cape Fear is not the first concrete ship to have used the Canal. The Faith has made three transits; north on October 3, 1918, and March 9, 1919, and south on December 28, 1918. The Faith is 346

feet long by  $46\frac{1}{2}$  feet beam.

# Vessels Classified by Lengths and Drafts.

The following is a summary by lengths and salt-water drafts of commercial vessels making transit of the Canal from July 1, 1919, to December 31, 1919:

Length.	Atlantic to Pacific.	Pacific to Atlantic.	Total.	Per cent of total.
Less than 100 feet Between 100 and 200 feet. Between 300 and 300 feet. Between 300 and 400 feet. Between 400 and 500 feet. Over 500 feet.	17 16 105 180 200 10	10 35 214 147 205 13	27 51 319 327 405 23	2.34 4.43 27,69 28,38 35,17
Total	528	624	1,152	100.00
Draft.	Atlantic to Pacific.	Pacific to Atlantic.	Total.	Per cent of total.
Less than 15 feet.  Between 15 and 20 feet.  Between 20 and 25 feet.  Between 25 and 30 feet.  Over 30 feet.	82 133 136 165 12	46 124 319 134 1	128 257 455 299 13	11 12 22 31 39 49 25 94 1 14
Total	528	624	1,152	100,00

# Agent Royal Netherlands West India Mail.

Mr. J. J. Ecker, Sr., has resigned the agency of the Royal Netherlands West India Mail at Cristobal-Colon and has been succeeded by Mr. H. E. Kies, whose office is at 182 Bolivar Street, Colon.

#### LINES THROUGH THE CANAL.

#### Services in Fairly Regular Operation Over the Great Trade Routes.

The following is a summary of the principal regular, or fairly regular, services through the Canal at present. War and post-war conditions have affected the regularity of the sailings, and with the release of more ships from government service new developments are taking place all the time. This summary endeavors to present the best approximation of present services:

From the Atlantic coast of the United States to the Pacific coast of South America—Many of the vessels plying over this route are in the petroleum or the nitrate trade and used exclusively by charterers. The following commercial lines maintain fairly regular services:

The Merchants' Line, operated by W. R. Grace and Company, plies between New York and ports of Ecuador, Peru, and Chile, with a sailing each way about every week, with calls at Buenaventura as cargo justifies.

The Pacific Steam Navigation Company has recently inaugurated a passenger and cargo service between New York and Valparaiso, calling at Callao, Mollendo, Arica, Iquique, and Antofagasta each way. The service is approximately fortnightly in both directions.

The United States Steel Products Company operates the New York and South America Line between New York and the west coast, as far south as Valparaiso, with a sailing each way about every third week.

The New Orleans and South America Steamship Company operates a monthly service from New Orleans to Ecuadorian, Peruvian, and Chilean ports. This service is in addition to a service from New Orleans to Cristobal, via Habana and Porto Rican ports, Trinidad, and Guadeloupe.

The Grace Line operates passenger-carrying ships between New York and Peruvian and Chilean ports. Sailings are about every 15

days.

The West Coast Line (Wessels, Duval, and Company), plies between New York and Chile and Peru, with a vessel going each way about

every third week.

The Chile Steamship Company operates a tri-weekly service between New York and Chilean ports, carrying on their outwardbound passages principally machinery and supplies for the plants of two American copper companies, and returning with copper and nitrates.

The Hodge Ship Company has a service between New Orleans and ports of Colombia and Ecuador, including Buenaventura, Tumaco, Esmeraldas and Guayaquil. Sailings are approximately monthly.

The Merchants' Line, the United States Steel Products Company's line, the West Coast Line, the Chile Steamship Company, and the Hodge Company's line carry cargo only. The others named in this section carry both passengers and cargo.

From Europe to the Pacific coast of South America—The East Asiatic Company has a line from Copenhagen, by way of Gothenburg and Christiania, to Valparaiso and intermediate ports, operating on a

fortnightly schedule. Passengers are carried.

The Johnson Line plies between Swedish and other Scandinavian ports and the west coast, as far as Valparaiso, with a sailing each way about every 60 days. Passengers are carried.

The vessels of the Nautilus Steam Shipping Company (the old Gulf Line), sailing from Great Britain to the west coast of South America via the Straits of Magellan, and returning up the coast, make the home voyage through the Canal. The service has cargo steamers, monthly.

The Royal Dutch West India Mail Steamship Company has approximately a monthly service from Rotterdam to the west coast of South

America and return. The ships handle cargo only.

The Pacific Steam Navigation Company has practically a weekly sailing from Great Britain to Peru and Chile, and return, both via the Panama Canal and the Straits of Magellan, the larger steamers using the latter route only outwardbound, but returning via the Panama Canal. Passengers are carried.

The Compagnie Generale Transatlantique (French Line) is operating a monthly freight service between Havre and Valparaiso, via

Ecuadorian, Peruvian, and Chilean ports.

The La Veloce Navigazione Italiana a Vapore ("La Veloce" Line) has a line from Genoa, Italy, to Valparaiso, calling at Marseilles, Barcelona, Tenerife, Barbados, Trinidad, Venezuela, Curaçao, Colombian ports, Port Limon, Cristobal, and Ecuadorian, Peruvian, and Chilean ports each way, with a sailing every 60 days. Passengers

and cargo are carried.

The vessels of the "Transatlantica Italiana" and "Societa Nazionale di Navigazione," sail from Genoa, calling at Marseilles, Barcelona, and Cadiz, thence to Trinidad, Curaçao, Venezuelan and Colombian ports, and to the Canal; and on the west coast call at Colombian, Ecuadorian, Peruvian, and Chilean ports as far as Valparaiso. On the homeward voyage the course is approximately the same, such calls being made as conditions warrant. For the present passengers are not carried but it is expected to begin a passenger service in November or December, 1920, with new steamers under construction in the shipping yards owned by the two companies.

The Royal Netherlands Steamship Company (Koninklijke Nederlandsche Stoomboot Maatschappij) is operating approximately a monthly service through the Canal between Amsterdam and Valparaiso. On the outward voyage the ships sail for Valparaiso direct; for the homeward voyage they receive orders at Valparaiso as to calls at ports between Valparaiso and the Canal, nitrates forming the bulk of the return cargo and determining the course of the ships.

The line carries passengers.

The transfer services from the Atlantic terminus of the Canal, referred to in the first section of this article, receive extensive consignments of goods from both Europe and the United States and carry them

through the Canal to the west coast of South America.

From Europe to the Pacific coast of Central America—The Royal Mail Steam Packet Company maintains a monthly service between London and Rotterdam and the principal ports in Central America up to and including Champerico. On the homeward voyage these steamers also call at Havre. Cargo only.

From Europe to the west coast of North America—The East Asiatic Company has a service between Scandinavian ports and San Francisco, operating a vessel each way about every fourth week. The ships carry

passengers.

The Johnson Line has a service over this route, primarily between Sweden and San Francisco, with a vessel each way about every 60 days, with passengers.

The Norway-Pacific Line operates motor vessels, carrying a few passengers, between Scandinavian ports and the Pacific coast of the United States.

The Harrison-Direct Line has a service between Great Britain and the west coast as far as Puget Sound, with a vessel each way approxi-

mately every sixth week. These are cargo ships.

The Maple Leaf Line plies from New York to Vancouver, to return to Europe by way of California ports and Santa Rosalia. Ships of this line are scheduled to sail every five weeks. They do not carry pas-

From the Atlantic terminus to South America—The Pacific Steam Navigation Company has services from Cristobal to west coast ports as far south as Valparaiso and Coronel. Sailings for Tumaco and Ecuadorian ports, as far as Guayaquil, are every few days; sailings to Valparaiso via Chilean and Peruvian ports are fortnightly; and a service between Cristobal and Buenaventura and Tumaco has a sailing every week.

The Compañia Sud-Americana de Vapores (South American Steamship Co.), the Chilean Line, maintains practically a weekly service between Cristobal and Valparaiso, calling at all important Peruvian

and Chilean ports.

The Peruvian Steamship and Dock Company of Callao (Peruvian Line) maintains a service between Cristobal and Peruvian ports, going as far south as Mollendo and making its principal calls on the way at Paita, Eten, Pacasmayo, Salaverry, Callao, and southern ports. The line has sailings each way once a week.

The Colombian Maritime Steamship Company, Limited, operates a vessel in regular service between Cristobal and Buenaventura and

Tumaco, making about two round voyages a month.

The Pacific Metals Corporation operates a motor schooner between Cristobal and Buenaventura, Colombia, carrying cargo, making round voyages approximately twice a month.

All of the lines named above, except the Pacific Metals Corporation,

carry both passengers and cargo.

From the Atlantic terminus to Central and North America—The Pacific Mail Steamship Company is operating a line between Cristobal and San Francisco, with a sailing each way about every 15 days. Calls are made at ports of Central America and Mexico on the way, and passengers are carried.

The Pacific Steam Navigation Company has a line to Central American ports as far north as Champerico, Guatemala, calling at the principal wayports, and returning over the same route. Sailings

are monthly. Passengers are carried.

From the Atlantic coast of the United States to Japan, Siberia, China, and the Philippine Islands—The movements of vessels over this trade route have not been regular, as most of the ships load and clear as cargo offers and do not attempt a fixed schedule. The tendency to this practice is fostered by the length of the voyage and a general uncertainty as to the return voyage, with what cargo and by what route.

The American-Oriental Line operates a service between New York and Yokohama, Kobe, Shanghai, Hongkong, Manila, and Singapore, carrying cargo, with a sailing about once a month in each direction.

The Barber Lines, operating between New York and the Far East, principally to Yokohama, Kobe, Manila, and Shanghai, send out a cargo ship about every three or four days.

A service of Alfred Holt and Company in this area send a cargo ship through the Canal about every three weeks.

Ships operated by Norton, Lilly, and Company between New York and the Far East area sail at irregular intervals, approximately once a month.

The Osaka Shosen Kaisha has a line between Japan and New York, via Cuba, with a ship in each direction every month.

The East Asiatic Company sends an occasional vessel to the Far East direct through the Canal; and at irregular times the vessels of the company return from the Far East to Denmark through the Panama Canal.

Frank Waterhouse & Co., Inc., maintains a service between the Philippine Islands and the Atlantic coast of the United States, carry-

ing cargo, with sailings approximately every three weeks.

The Nippon Yusen Kaisha operates a line of cargo steamers from New York via the Canal to Yokohama, Kobe, Shanghai, Hongkong, Manila, and Singapore, with a sailing about twice a month in each

The Toyo Kisen Kaisha operates a service between New York and the Orient, via Cuba, the Canal, and San Francisco, with a ship

each way every 60 days.

The Prince Line uses the Canal for its service between the Far East and Boston and New York. Some of the ships have sailed to or from Vladivostok, others from Japan, others from Australia. The sailings are irregular, and passengers are not carried.

From the Atlantic coast of the United States to Australia and New Zealand—The United States and Australia Line operates between New York and the ports of New Zealand and Australia, with a vessel

out about every 3 weeks.

The Ellerman Lines have a service from New York to Australia

and New Zealand, with irregular sailings.

The Federal Steam Navigation Company has established a line between New Zealand and New York, with a ship each way approximately every six weeks.

The American and Australian Line operates between New York

and Australia, with a vessel each way about every 20 days.

The Commonwealth and Dominion Line serves these trade areas, with a ship through the Canal in each direction about every fourth week.

The Stoomvarts Maatschappe Nederland, the Rotterdamsche Lloyd, and the Holland-American Line cooperate in a service between

New York and Batavia, Surabaya, and Samarang.

From Europe to Australia and New Zealand—The New Zealand Shipping Company operates a line between New Zealand and Great Britain with possible way calls at Norfolk and New York. Sailings each way are every 28 days for mail boats, carrying passengers, with intermediate sailings of cargo ships.

The White Star Line has a service between England and ports of New Zealand and Australia, with irregular sailings, a ship each way about every 12 or 15 days. The larger ships carry passengers.

The Commonwealth Government Line, operated by the Government of Australia, between Great Britain and Australia, via United States ports, has a large fleet of cargo and passenger steamers, with irregular sailings at present, averaging approximately a vessel outward every three weeks, returning by the Suez Canal or the Cape of Good Hope.

The Federal Steam Navigation Company operates over the same route, with a ship each way about once a month.

The Shaw, Saville, and Albion Company, Limited, of London, has been sending all of its ships through the Canal on both the homeward and outward voyages between Great Britain and New Zealand. The service is irregular but is settling down to a mail and passenger steamer each way every month and a cargo vessel every two weeks.

The Swedish East Asiatic Company has an irregular service between Scandinavian ports and the Far East.

United States coastwise trade—The Pacific Mail Steamship Company operates a service between Baltimore and San Francisco, via Habana and Puerto Colombia on the Atlantic, and via Central American ports on the Pacific side, with a vessel each way every three weeks, carrying cargo only.

The Isthmian Steamship Lines operate a service between New York and San Francisco, Seattle and Vancouver, carrying cargo, with a sailing about once a month.

#### CONNECTING LINES AT TERMINALS.

In connection with the traffic through the Canal, important business is carried on in the transfer of cargo and passengers between connecting carriers at the terminals of the Canal, especially Cristobal, at the Atlantic end. The following are the lines which call regularly at the terminals either with or without passing through the Canal:

Atlantic Terminal—The United Fruit Company operates a weekly service from New Orleans to Cristobal direct. These steamers return to New Orleans weekly, going via Bocas del Toro and Habana, This company operates a line from New York via Kingston to Cristobal, thence to Colombian ports, returning to Cristobal, sailing weekly to New York via Kingston. Also a line from New York, via Habana, to Cristobal, thence to Costa Rica, and direct to New York, sailing weekly.

The Panama Railroad Steamship Line maintains weekly sailings between New York and Cristobal, via Port au Prince, Haiti, carrying passengers and cargo, with supplementary sailings between New York and Cristobal direct, about every 10 days, of vessels carrying cargo only. A service is operated between Cristobal and Cartagena, Colombia, via Cispata, approximately weekly, carrying deck passengers and freight. A line handling coal to the coaling plants at Cristobal is operated from Norfolk, with sailings about fortnightly.

The service of La Veloce Line, noted under the section on lines between Europe and the west coast of South America, makes stops at Cristobal.

The Royal Dutch West India Mail (Koninklijke West Indische Maildienst) is operating a service with two ships a month in each direction between Amsterdam and Caribbean ports, carrying cargo and passengers. On the outward voyage the calls are usually Trinidad, and regularly La Guaira, Curação, Puerto Colombia, Cartagena, Port Limon, and Cristobal; and returning, the calls are as traffic warrants, normally Puerto Colombia, Cuaração, and La Guaira, with other calls depending on orders.

The Compañia Trasatlantica de Barcelona (Spanish Line) has a monthly service, carrying passengers and cargo, from Barcelona via Malaga, Valencia, Cadiz, Santa Cruz, and Las Palmas in the Canary Islands, San Juan, Porto Rico, and Habana to Cristobal; returning via Puerto Colombia, Cuarçao, Puerto Cabello, La Guaira, San Juan, Porto Rico, Canary Islands, Cadiz, and Barcelona.

The Compagnie Generale Transatlantique (French Line) operates fortnightly service between Cristobal and Havre, Saint Nazaire, and Bordeaux, via ports of Colombia, Venezuela, Trinidad, and the French

West Indies. Vessels carry both passengers and cargo.

The Leyland and Harrison Lines together maintain a cargo service through Caribbean and Gulf of Mexico ports, coming out from Liverpool and making the circuit according to the cargo which offers. A ship comes out approximately every month, and calls are normally made at Cristobal.

Pacific terminal—The Rolph Mail Steamship Company's vessels call at Balboa in the coasting service which they maintain between San Francisco and Chilean ports, with a vessel each way every two

months.

The Toyo Kisen Kaisha vessels in the service between the Orient and Valparaiso, via the west coast, call at Balboa. The line runs from the Orient to San Francisco, thence via Salina Cruz and Balboa to Peruvian and Chilean ports, returning in reverse order, with a vessel every month in alternate directions.

# Light Earthquake Shock.

A light earthquake shock was recorded at Balboa Heights on Thursday evening, March 18. The record began at about  $44\frac{1}{2}$  minutes past 8, and continued for approximately 1 minute. The maximum amplitude of the record was 10 millimeters and the approximate distance to its epicenter, or point of origin, was about 55 miles. The direction could not be determined positively, but it was thought to be from the southwest or west, as the principal movement was in an easterly direction.

This shock was felt by a number of people at the southern end of the Canal Zone. While somewhat stronger than other shocks recorded recently, it was much lighter than the heavy shocks that

occurred in 1913 and 1914.

#### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons Interested may obtain data on application to the Board of Civil Service Examiners, Balboa Heights, (telephone 286).

Investigator in marketing wool (male and female); \$2,400 to \$3,300 a year; No. 149; April 6, 1920;

Investigator in marketing wool (male and female); \$2,400 to \$3,300 a year; No. 149; April 6, 1920; form 2118; age, 25 years and over.*

Practical optician and glass worker (male and female); \$1,320 to \$1,600 a year; No. 151; April 13, 1920; form 1312; age, 18 years and over.*

Practical optician and glass worker's helper (male and female); \$720 to \$1,200 a year; No. 151; April 13, 1920; form 1312; age, 18 years and over.*

Matron; \$500 to \$720 a year; No. 146; March 17, April 21, May 19, June 23, and July 21, 1920; form 304; age, 21 years but not 50 years.

Assistant in nematology (male and female); \$1,000 to \$1,800 a year; No. 139; April 6, 1920; form 2118; age 21 years and over.*

2118; age, 21 years and over.* Translator, qualified as assistant tariff expert (male and female); \$2,000 a year; No. 152; April 21, 1920; form 1312; age, no limits.

Olier; \$840 to \$900 a year; No. 133-supplemental; March 30, 1920.*

Assistant field agent, protective social measures; \$1,200 to \$2,000 a year; No. 137-supplemental; April 21, 1920,*

Automobile mechanic (male and female); \$150 to \$175 a month; No. 128-amended; March 23, 1920; form 1312; age, 20 years and over.*

Junior mechanical engineer (male and female); \$1,800 a year; No. 156; April 13, 1920; form 1312;

age, 20 years and over.*

Technicist (machine tool expert) (male and female); \$3,000 a year; April 20, 1920; form 1312; age, 21 years and over.*

age, 21 years and over."

Assistant in marketing wool (male and female); Grade 1, \$1,800 to \$2,400 a year; Grade 2, \$1,200 to \$1,800 a year; No. 147; April 7, 1920; form 1312; age, 21 years but not 40 years.

Assistant specification engineer (male and female); \$1,200 to \$2,000 a year; No. 157; April 13, 1920; form 2118; age, 21 years but not 45 years.*

Fuel research assistant (male and female); \$1,200 to \$1,800 a year; No. 158; April 13, 1920; form

2118; age, under 35 years.*

2118; age, under 35 years.*

Domestie science teacher (male and female); \$720 a year; No. 142; April 7, May 5, June 9, and July 7, 1920; form 1312; age, 22 years but not 50 years.

Physical laboratory helper (male and female); \$600 to \$900 a year; No. 135; April 7, May 5, and June 9, 1920; form 1312; age, 16 years and over.

Apprentice fish culturist (male and female); \$600 to \$900 a year; No. 134; April 7, May 5, June 9, and July 6, 1920; form 1312; age, 18 years but not 45 years.

Assistant fuel engineer (male and female); \$4,200 a year; No. 141; April 6, 1920; form 2118; age, limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits and limits a

no limits.3

Lithographic transferrer (male and female); \$1,200 a year; No. 144; April 6, 1920; form 1800;

Linographic transferrer (male and female); \$1,200 a year; No. 144; April 6, 1920; form 1800; age. 20 years and over.*

Farmer, Indian Service (male and female); \$600 to \$900 a year; No. 617-supplemental.†

Director of bureau, division, or section of protective social measures (male and female); \$3,500 to \$4,500 a year; No. 136; April 20, 1920; form 2118; age, 21 years and over.*

Supervisor of protective social measures (male and female); \$2,800 to \$3,600 a year; No. 136; April 20, 1920; form 2118; age, 21 years and over.*

Field agent, protective social measures (male and female); \$1,800 to \$3,000 a year; No. 136; April 20, 1920; form 2118; age, 21 years and over.*

Special assistant agent, protective social measures (male and female); \$900 to \$1,500 a year; No. 136; April 20, 1920; form 1312; age, 21 years and over.*

Inspector of structural steel erection (male and female); \$8.80 a day; No. 143; April 6, 1920; form

age, 25 years and over.*

Marine engineer (male and female); \$2,400 to \$4,000 a year; form 2118; April 13, 1920; age, under 50 years. Mechanical engineer (male and female); \$2,400 to \$4,000 a year; April 13, 1920; age, under 50

years.* Electrical engineer (male and female); \$2,400 to \$4,000 a year; form 2118; April 13, 1920; age, under 50 years.*

under 50 years.*
Mechanician, onalified as instrument maker (male and female); \$900 to \$1,800 a year; forms 304 and 2029; age, 20 years and over.†
Mechanical aid (male and female); \$10.56 a day; form 2118; April 13, 1920; age, under 40 years.*
Automatic 3-A addressograph feeder (male and female); \$1,10 to \$1,200 a year; April 7, May 5, and June 9, 1920; form 304; age, 18 years and over.
Automatic 3-A addressograph operator, grade 1, \$1,200 to \$1,500 a year; April 7, May 5, and June

9, 1920; form 304; age. 18 years and over.

Automatic 3-A addressograph operator, grade 2, \$1,500 to \$1,800 a year; April 7, May 5, and June 9, 1920; form 304; age, 18 years and over. Posting machine operator (male and female): \$1,100 to \$1,320 a year; April 7, May 5, and June 9. 1920; form 304; age, 18 years and over.

Posting machine mechanic (male and female); \$1,400 to \$1,800 a year; April 7, May 5, and June 9.

1920; form 304; age, 18 years and over.

Posting machine expert (male and female); \$1,400 to \$1.800 a year; April 7, May 5, and June 9.

1920; form 304; age, 18 years and over. Statistical assistant (male and female); \$1,500 to \$2,100 a year; July 1, 1920; form 1312; age, within

reasonable age limits. Statistician (male and female); \$2,400 to \$3,600 a year; July 1, 1920; form 1312; age, within reasonable age limits.*

reasonable age limits.*

Bacteriologist junior bacteriologist (male and female); \$90 to \$180 and \$30 to \$90 a month; receipt of applications will cease on June 29, 1920; form 1312; age, 18 years and over.*

Typist; clerk with know'edge of stenography (male and female); \$900 to \$1,200 a year; April 9, May 7, and June 4, 1920; form 304; age, 18 years and over.

Clerk-translator (male and female); \$1,000 a year; April 21, 1920; form 304; age, 18 years and over.

Expert driller (male and female); \$3,000 a year; April 13, 1920; form 2118; age, 25 but not 45 years.* Assistant in poultry and egg handling (male and female); \$1,200 to \$1,620 a year; April 20, 1920;

Assistant in pointry and egg nandling (male and female); \$1,200 to \$1,620 a year; April 20, 1920; form 2118; age, not over 45 years.*

Assistant examiner, patent office (male and female); \$1,500 a year; April 7, 8, and 9, May 5, 6, and 7, and June 9, 10, and 11, 1920; form 1312; age, 20 years and over. No. 164.

Expert designer (male and female); \$4,200 a year; April 20, 1920; form 1312; age, reasonable age limits; No. 168.*

Specialist in marketing exterior (male and female); \$4,200 a year; April 20, 1920; form 1312; age, reasonable age April 7, 8, and 9, May 5, 6, and

limits; No. 168.*

Specialist in marketing statistics (male and female); \$3,000 to \$3,600 a year; form 2118; age, not over 45 years; April 20, 1920; No. 169.*

Junior construction engineer; junior designing engineer; junior marine engineer (male and female); March 30, 1920; \$1,800 to \$2,400 a year; form 2118; age, 21 years and over; No. 170.*

Technicist (machine tool expert) (male and female); \$3,000 a year; April 20, 1920; form 1312; age, 21 years and over; No. 171.*

Mold maker (optical glass or ceramics) (male and female); \$1,020 to \$1,680 a year; April 20, 1920; form 1312; age, 21 years and over; No. 172.*

Mechanical aid (male and female); \$1,050 form 40,000; form 2118; age, not 10 years.

Mechanical aid (male and female); \$10.56 per diem; April 20, 1920; form 2118; age, not 40 years;

173.* Marine engineer; mechanical engineer; electrical engineer (male and female); \$2.400 to \$4,000 s year; April 20, 1920; form 2118; age, not 50 years. No. 174.*

Money counter (male and female); \$700 to \$1,000 a year; April 7, 1920; age, 18 years, but not 35: form 304; No. 176.

Specialist in cotton classing or marketing (male and female); \$2,700 to \$3,600 a year; April 20 1920; form 2118; age, 25 years, but not 60 years; No. 179.*

Rodman and chainman, Interstate Commerce Commission (male and female); \$720 to \$1,080 a

year; form 1800; age, no age limits.†

Accountant (male and female); \$3,000 to \$4,500 a year; receipt of applications to close March 39, 1920; form 532-supplemental.

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

†Nonassembled. Applications will be received at any time until further notice.

#### Local Civil Service Examinations.

The following examinations for the Panama Canal Service will be held at Balboa Heights, Canal Zone, on the following dates:

Clerk and postal clerk, April 25, 1920.
Stenographer and typist, May 2, 1920.
Usual entrance salaries are, Clerk and typist, \$106 to \$127 a month. Postal clerk, \$104 to \$125 a month. Stenographer and typist, \$116 to \$137 a month.
Full information in regard to the scope and character of examinations is contained in leaflets, forms 2203 and 2206, copies of which, including sample questions, may be obtained from the Secretary, Board of Civil Service Examiners, Room 244, Administration Building, Balboa Heights, Canal Zone, telephone Balboa 286.

Applicants for the clerk examination must take at least one optional subject in addition to the Applicants for the clerk examination must take at least one optional subject in addition to the regular basis subjects. The optional subjects are typewriting, bookkeeping, general business training and experience and timekeeping training and experience. If the third optional is taken three letters of tecommendation from former or present employers, written on a business letterhead and signed by the persons recommending the applicants, should accompany the applicanton.

Applicants for the Postal Clerk examination must have had one year's experience in the United States or Canal Zone post offices or as postmaster or as Navy mail clerk, and must be familiar with the teceipt, distribution, and dispatch of mail matter, the issuance of money orders, registration of mail and the preparation of various reports required of postmasters.

Applicants must have reached their 18th but not their 45th birthday on the date of the examination.

must be citizens of the United States, physically sound and in good health.

Applicants must submit to the examiner on the date of the examination their photographs taken within two years, securely pasted on the admission card which will be sent to them after their applications have been filed and the questions have been received from the United States.

Applicants for the Clerk examination should state on the outside cover and also in answer to question

Applicants for the Clerk examination should state on the outside cover and also in answer to question No. 1 the optional subject or subjects desired in addition to the name of the examination.

In answer to question No. 4 applicants must show residence in some State or territory in the United States from the time of taking their leidence therein to April, 1920, a ruling having been made by the Civil Service Commission that those temporarily employed on the Canal Zone retain their legal residence in the last State in which they lesided prior to coming to the Isthmus.

Application form No. 1312 must be filled out, including the medical certificate but excluding the County Officer's Certificate, and shoul I be filed promptly with the Board of Civil Service Examiners. Balboa Heights, Canal Zone.

#### Deceased and Insane Employees.

The estates of the following deceased or insane employees of The Parama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moheys due them, should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

DECEASED.

Name.	Check No.	Native of —	Isthmian residence.	Employed by-	Date of death
Adolfo Deville	30459 $49012$ $4168$ $29062$ $52586$ $35596$ $39646$	France. Jamaica. U. S. A.* Jamaica. Jamaica. Bahamas Island. Barbados. Panama	Panama Colon Colon	R. & F. Agency Dredging Division	February 24, 1920. February 28, 1929 March 19, 1920. February 7, 1920. March 10, 1920. March 11, 1920. March 18, 1920.
lano)	47773	Panama	Camp Bierd	R. & F. Agency	March 12, 1920.

^{*} Naturalized.

INSANE.

Name.	Check No.	Native of—	Isthmian residence.	Employed by-	Date of commitment.	
Mon Ram. Cyril Sargent Harry B. McCristal.	35143		Colon		February 9, 1920. February 25, 1920. March 8, 1920.	

#### Official Circulars.

#### Restriction on Payment for Work in An Official Capacity.

THE PANAMA CANAL,

EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., March 17, 1920. To all concerned-The following is quoted from the provisions of the Legislative, Executive, and

Judicial Appropriation Act of March 3, 1917, for the information and guidance of all Canal employees and those persons, firms, associations, or corporations that may desire to contribute to or in any way supplement the salary of such employees for services performed by them in their capacity as Canal employees:

"That on and after July first, mineteen hundred."

and nineteen, no Government official or employee shall receive any salary in connection with his services as such an official or employee from any

source other than the Government of the United States, except as may be contributed out of the treasury of any State, county, or municipality, and no person, association, or corporation shall make any contribution to, or in any way supplement the salary of, any Government official or employee for the services performed by him for the Government of the United States. Any person violating any of the terms of this proviso shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine of not less than \$1,000 or imprisonment for not less than six months, or by both such fine and imprisonment as the Court may determine."

CHESTER HARDING, Governor.

#### Executive Order-Maximum Salary for Silver Employees.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., March 16, 1920. CIRCULAR No. 601-107.

The Executive Order quoted below is published for the information of all concerned.

CHESTER HARDING,

Governor.

ESTABLISHING A MAXIMUM RATE OF PAY FOR ALIEN EMPLOYEES OF THE PANAMA CANAL AND THE PANAMA RAILROAD COMPANY ON THE ISTII-MUS OF PANAMA.

By virtue of the authority vested in me by The Panama Canal Act, approved August 24, 1912, it is hereby ordered:

I. That the Executive Order of February 2, 1914,* be so amended that paragraphs 6 and 20 theref feell reed as followers.

thereof shall read as follows:

#### PARAGRAPH 6.

All employees who receive compensation at the rate of more than \$960 a year or 40 cents an hour, must be citizens of the United States or the Republic of Panama, and such citizens will be given preference for employment in all grades. Aliens may not be employed in such grades unless (a) they have occupied similar positions during the construction of the Canal for two years or more or (b) in case of emergency in which letters more, or (b) in case of emergency, in which latter case they must be replaced by citizens of the United States or Republic of Panama as early as practicable.

#### PARAGRAPH 20.

All employees who are citizens of the United States, and aliens whose compensation is at a rate of more than \$960 a year or 40 cents an hour, shall be entitled to leave privileges.

II. This order shall take effect on and after

this date. WOODROW WILSON

THE WHITE HOUSE, February 20, 1920.

*Published as Panama Canal Circular 601-4.

#### Rate for Floating and Track Pile Drivers.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., March 15, 1920. CIRCULAR No. 686-11 (superseding Circular No 686-10).

o86-10). Effective March 1, 1920, the rate of \$3 an hour is established for the use of the Panama Railroad floating pile driver and Panama Railroad track pile driver No. 2, by departments and divisions of The Panama Canal and Panama Railroad, or other branches of the United States Government. This rate covers material and supplies, repairs, and depreciation only. Actual labor will be hilled separately. labor will be billed separately.

CHESTER HARDING, Governor.

#### Time Limit on Commissary Authority Cards Extended.

THE PANAMA CANAL, EXECUTIVE OFFICE

BALBOA HEIGHTS, C. Z., March 24, 1920. To all concerned—The time limit on commissary authority cards expiring March 31, 1920, is hereby extended to June 30, 1920. All issuing clerks will be governed accordingly. New cards will not be issued until the month of June.

CHESTER HARDING, Governor.

#### Licensing of Chauffeurs.

THE PANAMA CANAL,

EXECUTIVE OFFICE BALBOA HEIGHTS, C. Z., March 16, 1920 CIRCULAR No. 723-1.

Circular No. 723-1.

By virtue of the authority contained in section 5 of the Executive Order of October 9, 1918, providing for the licensing of chauffeurs in the Canal Zone, and published as Circular No. 601-83, I hereby amend subparagraph (i) of the rules and regulations governing the issuance of licenses as contained in Circular No. 723 of November 23, 1918, to read as follows:

"(i) Members of the military and naval forces of the United States stationed on the Isthmus, will hereafter be required to have Canal Zone chauffeurs' licenses when operating self-propelled vehicles belonging to those organizations. Such

chauffeurs licenses when operating sen-propertu-vehicles belonging to those organizations. Such licenses will be issued in accordance with the procedure prescribed in Circular No. 723, ar • no fee shall be charged therefor when issued to shauffeurs who only operate such official yehicles. chauffeurs who only operate such official vehicles. Official licenses so issued will continue in force until the official necessity therefor ceases, when they should be returned to the Executive Secretary for cancellation."

CHESTER HARDING, Governor

Appointment. THE PANAMA CANAL, EXECUTIVE OFFICE.

BALBOA HEIGHTS, C. Z., March 15, 1920. CIRCULAR No. 661-84:

Capt. E. P. Jessop, U. S. N., having reported for duty this date, is hereby temporarily assigned to duty as Assistant to the Governor.

CHESTER HARDING, Governor.

#### Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT,

BALBOA HEIGHTS, C. Z., March 12, 1920. CIRCULAR No. 232:

Effective March 11, 1920, Mr. H. G. Cornthwaite is designated an accountable official of The Panama Canal, vice Mr. R. Z. Kirkpatrick, and as such will account for all nonexpendable property in use in the Division of Meteorology and Hydrography.

ELWYN GREENE.

Acting Auditor, The Panama Canal.

Approved:

CHESTER HARDING, Governor.

#### Fusible Plugs.

THE PANAMA CANAL. BOARD OF LOCAL INSPECTORS

BALBOA HEIGHTS, C. Z., March 15, 1920.

To all concerned—The Governor has approved my memorandum to the Engineer of Maintenance under date of March 3, 1920, from which the following is quoted for your information:

"The Engineer Memberofthe Local Board, up-

on investigation, finds that the cost of refilling fusible plugs exceeds, in most cases, the cost of new

plugs. * * * In view of the enormous cost of refilling plugs and the comparatively low cost of purchasing new plugs, the board is of the opinion, and it so recommends, that in future all old fusible plugs be scrapped and that new plugs be used in each and every case.

It is further recommended that the General Storekeeper at Balboa be instructed to keep on hand a larger number of plugs commonly used at the Panama Canal than has heretofore been the custom, viz., ½", 1", and 1½" external plugs."

JOHN G. FELS, Chairman.

#### Commissary Managers.

THE PANAMA CANAL, SUPPLY DEPARTMENT,

CRISTOBAL, C. Z., March 16, 1920.

MEMORANDUM No. 761-45:

managers-Effective as of commissary March 8, and to continue during the absence on leave of Mr. O. G. Hanseler, Mr. C. W. Barnhard will act as Manager, Culebra Commissary.

J. J. JACKSON, General Manager, Commissary Division.

> THE PANAMA CANAL, SUPPLY DEPARTMENT, CRISTOBAL, C. Z., March 16, 1920.

MEMORANDUM No. 761-46:

To commissary managers—Mr. H. C. Herse having returned from vacation, will resume his duties as Manager, Cristobal Commissary, vice Mr. H. C. Smith, transferred to other duties.

J. J. JACKSON, General Manager, Commissary Division.

#### Misdirected Letters.

BALBOA HEIGHTS, C. Z., March 23, 1920. The following insufficiently addressed mail has been received in the office of the Director of Posts and may be obtained upon request of the addressee. Such request may be made by telephone, calling No. 182, Balboa: Alkins, Mrs. C. C.*

Anderson, James
Armstrong, Mrs Lloyd
Clayton, Mrs. L. D.*
Cudlip, Mrs. R. L.
Davison, Walter Dackerson, J. A. Drake, Mrs. Henry Harden, Edward B. Kennedy, W. F., Jr. Lawrence, Agnes Lewis, Archie

McKay, Harvey
McKay, Harvey
Martin, Joe R.
Miller, C. J.
Moore, Stanley
Parker, Phillip
Pire, Guy W.
Read, A. O.
Sterling, Mrs. G. H. Stout, Roy Ceral Taylor, A. R. Toland, Joseph† Wilson, Thos.‡

*Paper. †Special delivery. ‡Card.

# Additions to Commissary Stock.

Additions to Commission brocks	
Hardware Section.	
Fishing tackle: Swivels, connecting link	**
barrel, 3/0, ea	\$0.04
Kettles, Berlin, aluminum, 2-qt., ea	1.15
Knives, bread, ea	.55
Knives, bread, ea	.42
Knives, cook, ea	.64
Knives, paring, ea	.13
Knives, paring, ea	.14
Knives, pocket, ea	.47
Knives, pocket, ea	.35
Knives, pocket, ea	. 20
Mattresses, crib, Balsa wool, 4" x 2' 4" x	6.35
4' 8", ea	1.35
Pans, shallow, stew, aluminum, 4-qt., ea	.96
Pans, oyster stew, aluminum, 2-qt., ea	5.05
Pitchers, aluminum, 3-qt., ea	2.95
Pots, tea, aluminum, 2-qt., ea	1.30
Saucepans, lipped, aluminum, 4-qt., ea	1,30

## Apples.

The steamship Colon, which arrived Friday, brought 250 boxes of extra fancy Newtown pippins, which are now being sold in the commissaries.

#### Sugar.

The latest advice from the commissary purchasing agent states that the refineries are now charging from 14 cents to 16 cents per pound for sugar. The supply is said to be about normal but the demand is very heavy. Many of the refineries which are running at full capacity are over-sold and out of the market.

### Commissaries Closed.

Commissaries will be closed for the quarterly inventory all day on Tuesday, The grocery and cold storage sections will be opened not later than 10 a. m. on Wednesday, March 31, and all other departments as soon thereafter as possible.

The commissaries will also be closed all day April 2, Good Friday.

#### Electrical Supplies.

It is becoming increasingly difficult for the Commissary Division to obtain reasonable deliveries on its requisitions for electrical equipment sold in the line stores. Practically the same information has been received from all contractors—that they are greatly behind in production and that many orders must remain unfilled. The earliest estimate of shipping date furnished by one company with which an order has just been placed is September 1.

#### Tovs.

A shipment of velocipedes, hand cars, toy automobiles, etc., has just been received and distributed to the line commissaries. These articles were ordered for the Christmas trade but conditions in the United States made it impossible for the contractors to ship within the desired time. However, as these are items that sell the year around they have been sent to the stores so that customers may have the opportunity to purchase. Prices range from \$2.50 to \$10.45 each.

# THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address
The Panama Canal Record, Balboa Heights, Canal Zone, or
The Panama Canal, Washington, D. C.
Enterod as second-class matter, February 6, 1918, at the Post Office
at Cristobal, C. Z., under the Act of March 3, 1879.

Volume XIII.

Balboa Heights, C. Z., March 31, 1920.

No. 33.

# Visit of Prince of Wales-"Renown" Largest Ship Through Canal.

The British battle cruiser *Renown*, carrying the Prince of Wales and his staff, arrived at Cristobal in the morning of March 30, and proceeded through the Canal to Balboa. At Gatun Locks the *Renown* was boarded by the Governor of The Panama Canal, the President of Panama, and other officials, who made the passage as far as Pedro Miguel Lock. The ship was held up about three hours in Gaillard Cut while the dredges cleared the channel past the south side of Cucaracha slide, and arrived at Balboa at 8.30, having been 13½ hours in transit.

The *Renown* is the largest ship, in length and displacement, to have passed through the Canal. She is 795 feet long, over all, and her displacement, as measured for the collection of tolls, at 50 cents per displacement ton, is 33,379 tons. Her beam,  $91\frac{1}{2}$  feet, is 5 feet 10 inches less than that of the battleships Mississippi and New Mexico. She was drawing 31 feet 8 inches, forward and aft, in fresh water, at the time of passage.

The Prince was entertained in the evening of his arrival by a dinner and reception, followed by dancing, given by the British Minister at the Tivoli Hotel, and in the evening of March 31 is to be the guest of honor at a banquet and ball tendered by the President of Panama at the Union Club. The *Renown* is due to sail for San Diego at 6 a. m., April 1, thence to New Zealand and Australia via Honolulu.

# New Lighthouse Tender and Salvaging Vessel.

The U. S. S. Favorite, a salvaging and towing vessel used by the United States Navy, as a minesweeper, in operations in the North Sea and English Channel during the recent war, is to be transferred to The Panama Canal for use as a lighthouse tender and an auxiliary salvaging vessel. The Favorite was built in 1907 by the Buffalo Dry Dock Company, for the Great Lakes Towing Company, Duluth, and was bought by the Navy Department for use in the war. She is to be transferred to the Canal for service, subject to recall by the Navy in case of emergency.

The Favorite is a vessel of 1,223 gross tons, 195 feet in length over all, 180 feet between perpendiculars, with a breadth of 43 feet and a molded depth of 20 feet and 6 inches. She is equipped with a 25-ton boom forward and a 5-ton boom aft, and with a machine shop containing an air compressor, power saw, cutter, shaper, a punching machine, a 200-kilowatt generator, and pumps. She is a coal burner, credited with a speed of 14 or 15 knots and is equipped with wireless.

It is expected that the *Favorite* will not only be a capable, satisfactory lighthouse tender, better able to make rough voyages in the Caribbean to the outlying lights maintained by The Panama Canal and to Cape Mala on the Pacific side than the tugs which have heretofore been employed, but also will be of distinct assistance in relief work and salvaging.

#### CANAL WORK IN FEBRUARY.

The following is the report of the Governor to the Secretary of War, of Canal work in the month of February, 1920:

BALBOA HEIGHTS, C. Z., March 26, 1920.

The Honorable, the Secretary of War, Washington, D. C.

SIR: I have the honor to submit the following report of The Panama Canal for the month of February, 1920.

#### CANAL TRAFFIC.

The number of ocean-going commercial vessels passing through the Canal during the month was 208, not including 21 United States Government vessels, as follows: Ten submarines, 2 tenders. 2 tugs. 1 supply ship, 1 collier, 1 dreadnaught, 1 hospital ship, 1 gunboat, 1 subchaser, and 1 merchant ship with coal for the United States Navy. The month's traffic is classified in a tabulation included in this report.

The net tonnage, Panama Canal measurement, of the 208 commercial vessels aggregated 703,462 tons, 62,071 tons less than the preceding month. Their registered gross tonnage was 913,404, and registered net tonnage, 579,842. The total cargo carried was 780,488 tons of 2,240 pounds, 114,140 tons less than in January. Of the total for this month, 3,593 tons were carried as deck cargo. The total number of vessels and craft of all kinds through the Canal was 230, as compared with 267 last month.

The average length of the commercial vessels was 341 feet, average beam 48 feet, and average draft in salt water 21 feet; their average tonnage, Panama Canal measurement, was 3,382; United States net equivalent, 2,818; registered gross, 4,391; and registered net, 2,788. The United States Army transport, America, which passed southward through the Canal on February 6, is the second longest vessel and the ship of the greatest gross tonnage to have transited the Canal to date. The previous high record for gross tonnage was that of the Minnestoa with 20,602 tons. The length of the America is 668 feet, 9 inches; 16 feet, 7 inches less than that of the Mount Vernon, the ship of greatest length yet passing through the Canal.

The United States coastwise trade for the month comprised 23 vessels aggregating 121,793 tons, Panama Canal measurement, carrying 118,456 tons of cargo. There were 8 vessels from the Atlantic to the Pacific Coast with a total Panama Canal net tonnage of 49,567, and cargo of 28,733 tons; and from the Pacific to the Atlantic Coast, 15 vessels with a total Panama Canal net tonnage of 72,226, carrying 89,723 tons of cargo.

PRINCIPAL COMMODITIES.

Bulk shipments consisting of whole cargoes of the different principal commodities included in the February traffic were:

#### FROM ATLANTIC TO PACIFIC.

Commocity.	No. of cargoes	Tons.	Total tons.	From-	То-
Crude oil Crude oil Crude oil Case oil Case oil Case oil Case oil Case oil Coal Coal Coal	2 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1	16,220 9,764 8,143 8,214 6,300 7,500 6,116 9,039 6,749 1,585	34,127	Tampico Tampico Tampico Port Arthur New York New York Philadelphia Sabine Norfolk Baltimore Newport News.	San Francisco. Fiji. Shanghai. Moji, Japan. Honolulu. San Francisco. Chile.

#### FROM PACIFIC TO ATLANTIC.

Commodity.	No. of cargoes.	Tons.	Total tons.	From—	То—
Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5,200 3,009 3,000 5,466		Iquique Taltal	Antwerp. La Pallice. La Pallice. United Kingdom Liverpool. Genoa. Ostend. Havre. Dunkirk.

#### FROM PACIFIC TO ATLANTIC-Continued.

Commodity.	No. of cargoes.	Tons.	Total Tons.	From-	То—
Nitrate	1	4,000		Taltal	Dunkirk.
Nitrate	i	7,600		Antofagasta	Alexandria.
Nitrate	1 1	6,260		Antofagasta	Europe.
Nitrate	l îl	7,400		Antofagasta	United Kingdom
Nitrate	i	3,700		Antefagasta	Barcelona.
Nitrate	ī	3,600		Antefagasta	Lisbon.
Nitrate	ī	7,204		Caleta Colosa	Leith.
Nitrate	Ī	4.719		Caleta Colosa	Nykoping.
Nitrate	3	17,900		Iquique	Cristobal.*
Nitrate	2	11,056		Meiillones	New Orleans.
Nitrate	1	3,227		Caleta Buena	New Orleans.
Nitrate	1	8,000		Mejillones	Baltimore.
Nitrats	1	3,000		Meillones	Boston.
Nitrate	i i	8,600		Antefagasta	Charleston,
Nitrate	1 1	2,991		Caleta Buena	Charleston,
Nitrate	1	2,850		Iquique	Charleston.
Nitrate	1	8,600		Mejillones	Charleston.
Nitrate	1	5,060		Taltal	Charleston.
Nitrate	1	5,966		Iquique	Hampton Roads.
Nitrate	1	3,522		Taltal	Norfolk.
Nitrate	1	3,030		Caleta Colosa	Pensacola.
Nitrate	1	2,550		Caleta Buena	Philadelphia.
Nitrate	1	3,260		Iquique	Philadelphia.
Nitrate	2	16,036		Antefagasta	Savannah.
Nitrate	3	15,790		Iquique	Savannah.
Nitrate	1	6,721		Mejillones	Savannah.
Nitrate	1	8,726		Tocopilla	Savannah.
Nitrate	1	3,200		Iquique	Wilmington.
Nitrate	1	5,560		Junin	Wilmington.
Nitrate	2	6,850	259,635	Tocopilla	United States ports
Flour		23,044		Seattle	New York.
Flour	3	23,008		San Francisco	New York.
Flour		22,964		Portland	New York.
Flour	. 1	6,302	75,318	Tacoma	New York.
Food products:					- 1
Cold storage		5,300		Lyttleton	London.
Cold storage		8,114		Sydney	London.
Cold storage		9,423	22,837	Wellington	London.
Barley	. 1		3,000	San Francisco	United Kingdom.
Beans	. 1		5,999	San Francisco	Hamburg.
Rice		1 007	5,600	Hongkong	New Orleans.
Lumber	. 1	1,697		Astoria	Philadelphia.
Lumber		2,658		Portland	Queenstown.
Lumber	· 1	2,049 6,261		Scattle	West Hartlepool
Lumber	1 1	6,125		San Francisco	Cardiff.
Lumber	3	5,568		Vancouver	Liverpool. London.
Lumber				Vancouver	
Lumber		1,631 2,267	90 950	Vancouver	
Lumber	. 1	2,207	28,256	Victoria.,	Liverpool.

^{*} For orders.

### LATIN-AMERICAN TRAFFIC.

Commercial vessels passing through the Canal en route to the west coast of Central and South America were classified as follows:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
United States. British. Peruvian. Norwegia • Japanese. French. Ckilean. Portuguese. I • Ilian. Swedish. Danish.	3 2 2 1 1 1	108, 437 25, 281 17, 085 15, 357 21, 305 11, 469 8, 367 5, 605 5, 368 3, 774 2, 858	72,950 14,495 8,929 10,009 12,722 7,139 3,888 3,528 3,200 2,875 1,692	85,427 18,484 10,698 11,781 15,487 8,237 5,514 4,501 3,457 3,965 2,459	Tons. 37,924 13,055 2,412 8,138 6,878 490 799 4,000 3,730 3,730 3,349
Total	62	224,906	141,418	170,010	81,075

Of the 62 vessels above, 27 were in ballast; 18 from United States ports, 3 from the United Kingdom, 2 from Cristobal, 1 from Belgium, 1 from Tampico, Mexico, 1 from France, and 1 from the British West Indies. Of the 35 laden vessels, 14 were from United States ports, 8 with 25,427 tons of general cargo, and 6 with 23,394 tons of coal and coke; 14 from Cristobal with 7,849 tons of general cargo; 2 from Tampico, Mexico, with 16,220 tons of fuel oil; 1 from Kingston, Jamaica, with 1,061 tons; 1 from Glasgow with 2,604 tons; 1 from Havre with 490 tons; 1 from Sweden

with 3,730 tons; and 1 from Genoa, Italy, with 300 tons, all general cargo. One vessel of 692 tons, Panama Canal measurement, carrying 723 tons of general cargo, was en route to Champerico, Guatemala, and other Central American ports; the remaining 34 laden ships were all destined to South American ports.

The Latin-American traffic from the west coast of Central and South America for

the month is classified in the following tabulation:

Nationality.	No. of ship3.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
United States.  British. Norwegian. Spanish. Peruvian. Japanese. Chilean. German. Dutth. Italian. Danish.	31 17 8 6 3 2 2 1 1 1	118,379 45,178 29,146 20,377 12,682 12,594 7,612 7,401 6,899 3,816 3,102	76,591 27,126 18,277 13,342 7,014 7,834 4,560 4,752 4,417 2,454 1,963	86,776 35,992 22,864 15,618 8,312 9,148 6,043 5,519 6,653 2,661 2,389	Tons. 144,354 45,912 33,425 28,316 8,060 15,711 4,604 7,000 10,020 5,200 4,719
Total	73	267,186	168,330	201,975	307,321

Three of the above vessels (2 oil tankers and 1 tug) were in ballast; the others were all laden. Eighty-seven per cent of the total cargo consisted of nitrate. With the exception of 1 vessel of 692 tons, Panama Canal measurement, carrying 866 tons of general cargo from Champerico, Guatemala, to Cristobal, all were en route from the west coast of South America.

The registry of the vessels engaged in this traffic for the month, the kind and quantity of the cargo handled, and its destination are shown in the tabulation follow-

ing:

No. v essels	Registry.	Tons cargo.	Commodity.	Total commodity	Destined to—
22 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	United States. Norwegian. Spanish. United States. British. Norwegian. United States. British. United States. Japanese. British. Norwegian. Japanese. Dutch. United States. Dutch. United States. Arganese. Dutch. United States. Norwegian. United States. British. Italian. Spanish. Spanish. Spanish. Danish United States. Spanish. Norwegian. German. British. Peruvian. Chilean. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States. United States.	18,576 5,966 3,600 3,547  7,469 5,466 5,450 3,000  8,526 3,009  5,674 15,050 8,000 7,000 9,159 8,060 4,604 1,272 Tanker Tanker Tanker	Nitrate. Nitrate. Nitrate. Nitrate. General cargo. General cargo. Coffee and drums. Cocoa Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Oeneral cargo. General cargo. Ballast. Ballast.	112,362 7,147 840 160 21,496 21,496 10,245 10,020 11,535 7,600 6,260 5,200 3,700 3,700 4,719 57,957	United States ports. United States ports. United States ports. United States ports. United States ports. United States ports. United States ports. United States ports. United States ports. United States ports. United States ports. United States ports. United States ports. United States ports. United States ports. United States ports. United States ports. Holland. Belgium. Belgium. Belgium. Belgium. Alexandria, Egypt. Europe (port unknown), Italy. Spain. Portugal. Sweden. Cristobal (for orders).* Cristobal (for orders).* Cristobal (for orders).* Cristobal (for orders).* Cristobal (transfer).† Cristobal (transfer).† Cristobal (transfer).† Cristobal (transfer).† Tampico, Mexico. Tampico, Mexico. Cristobal (for orders).
73				307,321	

^{*} The 6 vessels shown were routed to Cristobal where they received orders to proceed to ultimate destination.
† The 17 vessels shown delivered 23,095 tons of cargo at Cristobal for transfer to other steamship lines.

Fifty-four of the vessels passing through the Canal this month were under control of the United States Shipping Board; these combined a total Panama Canal net tonnage of 177,815 and carried 225,545 tons of cargo. Twenty-seven were southbound with 90,849 tons of cargo; the same number were northbound with 134,696 tons of cargo, the latter mainly nitrate.

#### PRINCIPAL TRADE ROUTES.

Separate statements attached to this report show the ports of origin and destination for all cargo through the Canal for the month. (See pages 482 to 484 and 489.) The tabulation below gives the distribution according to the principal trade routes:

		Total vess	els.		sels in pallast.
6	Ves- sels.	Panama Canal net tonnage.	Cargo.	Ves- sels.	Panama Canal net tonnage.
Atlantic to Pacific.  United States to west coast of South America. Cristobal to west coast of South America. United States to Far East. Europe to west coast of South America. United States coastwise. United States to Honolulu United States to Honolulu United States to Australia and New Zealand. Mexico to west coast of South America. Cristobal to west coast of United States. Europe to west coast of United States. Europe to New Zealand. Canada to New Zealand Mexico to west coast of United States. Cristobal to west coast of United States. Cristobal to west coast of United States. Cristobal to west coast of United States. British West Indies to west coast of South America. British West Indies to west coast of South America.	32 15 12 10 8 6 3 3 3 2 *1 1	96,614 25,144 54,444 34,217 49,567 31,508 15,925 11,668 5,654 11,372 9,587 6,895 6,540 662 675	48,821 7,126 86,978 8,185 28,733 47,683 24,611 16,220 6,745 5,021 12,000 9,764 723	18 2 5 2 1	56,977 2,859 16,998 1,010 1,517 5,667
Total	99	360,502	302,610	30	85,701
Pacific to Atlantic.  West coast of South America to east coast of United States.  West coast of South America to Europe  West coast of South America to Cristobal.  United States coastwise.  Canada (British Columbia) to Europe  West coast of United States to Europe  Australia and New Zealand to Europe  Far East to east coast of United States  West coast of South America to Mexico  West coast of South America to Egypt  West coast of Central America to Cristobal  West coast of Central America to Cristobal  West coast of Central America to Canal Zone.  West coast of South America to Jamaica		91,162 66,249 28,390 72,226 12,056 16,294 25,178 13,151 10,626 4,741 1,602 478 115	160,066 109,160 29,629 89,723 15,591 23,067 22,837 17,600 7,600 1,350 866 389	2	12,663
Total	109	342,960	477,878	5	23,40

Vessels carried passengers only.
 † Includes 1 vessel of 3,994 tons, Panama Canal net measurement, with 7,400 tons of cargo proceeding to Cristobal for orders, ultimate destination unknown.

#### SERVICES TO CANAL SHIPPING.

Repairs were made on 137 vessels during the month including those entering the ports only and those passing through the Canal; 86 at Cristobal and 51 at Balboa. Twenty-three vessels were drydocked for repairs; 10 at Cristobal and 13 at Balboa, the latter including 7 submarines. Coal sales totaled 39,498 tons to 131 commercial vessels; 33,997 tons to 116 vessels at Cristobal, and 5,501 tons to 15 vessels at Balboa. Sixteen ships were furnished a total of 47,200 barrels of fuel oil; 4 at Cristobal with 20,141 barrels, and 12 at Balboa with 27,059 barrels. There were 347 vessels supplied with 15,708,857 gallons of water; 228 at Cristobal with 13,215,607 gallons, and 119 at Balboa with 2,493,250 gallons. Sales of commissary supplies to commercial ships other than those of the Panama Railroad Steamship Line aggregated \$104,412.67, including \$3,153.41 for laundry service at Cristobal and Ancon laundries; these sales having been made to 171 vessels in the amount of \$70,862.08 at Cristobal, and to 94 vessels in the amount of \$33,550.59 at Balboa. Charges for tug service for vessels using the Canal and the terminal ports amounted to \$22,716.60, of which \$15,736.25 was earned at Cristobal, and \$6,890.35 at Balboa.

#### STATEMENT OF OPERATIONS.

Details of the business transacted at the Canal terminals are included in the following tabulation:

Item.	Cristobal.	Balboa.	Total.
Commercial ships making transit of Canal Net tonnage of commercial ships, Panama Canal measurement. United States equivalent net tonnage of commercial ships. Registered gross tonnage of commercial ships. Registered net tonnage of commercial ships.	360,502 305,856	342,960 280,251 443,647 278,702	208 703,462 586,107 913,404 579,842

Item.	Cristobal.	Balboa.	Total.
Cargo through Canal in commercial ships, tons of 2,240 pounds  Deck load cargo, included in above  Nationality of commercial ships through the Canal:	302,610 954	477,878 2,639	780,488 3,593
Nationality of commercial ships through the Canal; British	28	23	61
Chilean	2	2	4
Danish. Dutch	1	1 1	2 1 8
FrenchGerman	2	6	8
Italian	1	1 1 3	$\frac{1}{2}$
Japanese Norwegian.	8 4	3   9	11 13
Peru•ian Portugxese	4	3	7
Spanish	1	6	1 6
Swedish United States	1 47	53	100
Total	99	109	208
British. Chilean.	89,815 5,514	73,803 6,043	163,618 11,557
Danish	2,459	2,389	4,848
Dutch. French.	8,237	6,653 7,931	6,653 16,168
German	3,457	5,519 2,661	5,519
Japanese	37,672	13,185	6,118 50,857
Norwegian Peruvian	11,781 10,698	27,611 8,312	39,392 19,010
Portuguese. Spanish	4,501		4,501
Swedish	3,965	15,618	15,618 3,965
United States	182,403	173,235	355,638
Total	360,502	342,960	703,462
DrillsD	77,510	56,706	134,216 7,040
Chilean. Danish.	3,365 2,471	3,675 1,961	7,040 4,432
Dutch		4,262	4,262 14,793
French. German	1	7,627 4,697	4,697
Italian Japanese	3,053 33,439	2,458 11,352	5,511 44,791
Norwegian	9.919	23,169	33,088
Peruvian Portuguese	6,907 4,419	5,703	12,610 4,419
Spanish Swedish	2,295	13,739	13.739
United States	155,312	144,992	2,295 300,21 <b>4</b>
Total	305,856	280,251	586,107
Registered gross tonnage of commercial ships through the Canal: British.	119.429	89,585	209.014
Chilean	119,429 8,367	7,612	209,014 15,979
Danish	2,858	7,612 3,102 6,899	5,960 6,899
French. German.	11,469	13,153	24,622 7,401
Italian	5,368	7,401 3,816 17,151	9,184
Japanese Norwegian :	51,196 15,357 17,085	34,411	9,184 68,347 49,768 29,767
PeruvianPortuguese	17,085 5,605	12,682	29,767 5,605
Spanish	1	20,377	20.377
Swedish. United States.	3,774 231,249	227,458	3,774 458,707
Total	471,757	443,647	915,404
Registered net tonnage of commercial ships through the Canal: British	74,578	55.482	130,060
Chilean	3,888	4,560	130,060 8,448
Danish	1	4,417	3,655 4,417
French German	7,139	55,482 4,560 1,963 4,417 7,937 4,752 2,454	4,417 15,676 4,752
Italian	3,200	2,454 11,081	5,654 43,977
Japanese,	. 10,000	21,527 7,014	31,527
Peruvian Portuguese	. 8,929	7,014	15,943 3,528
Spanish		13,342	13,342
Swedish. United States.	2,875 152,415	144,173	2,875 296,588
Total		278,702	579,842
(Uta)	01,110	1	

Item.	Cristobal.	Balboa.	Total.
Cargo carried by ships according to nationality:           British           Chilean           Danish           Dutch           French           German           Italian           Japanese           Norwegian           Peruvian           Portuguese           Spanish           Swedish           United States	98, 958 799 3,349 490 40,061 8,138 2,412 4,000 3,730 140,373	87,135 4,604 4,719 10,020 9,466 7,009 5,200 21,311 33,425 8,060 28,316	186,093 5,403 8,068 10,029 9,956 7,000 5,500 61,372 47,563 10,472 4,000 28,316 3,730 392,995
Total.  Vessels passing through the Canal free of tolls:  U. S. Navy submarines.  U. S. Navy tenders.  U. S. Navy tenders.  U. S. Navy supply ship.  U. S. Navy supply ship.  U. S. Navy subchaser.  U. S. Navy subchaser.  U. S. Navy hospital ship.  U. S. Navy dreadnaight.  U. S. Navy collier.  Merchant ship with coal for U. S. Navy.  Tug (British) with minus U. S. equivalent tonnage.	1 1 1 1	477,878 7 1 1 1	780,488 10 2 2 1 1 1 1 1 1
Total Total ocean-going ships passing through the Canal. Total vesels and craft passing through the Canal. Cargo on which no tolls were charged. tons Commervial ships through the Canal without cargo, but not in ballast. Net tonnage of above, Panama Canal measurement. Commervial ships through the Canal in ballast. Net tonnage of above, Panama Canal measurement. Total commercial ships without cargo transiting the Canal. Net tonnage of above, Panama Canal measurement. Motor ships through the Canal. Net tonnage of above, Panama Canal measurement. Yachts through the Canal. Net tonnage of above, Panama Canal measurement. Total sevied on laden ships through the Canal. Net tonnage of above, Panama Canal measurement. Total sevied on laden ships through the Canal. Total sevied on ships in ballast.	14,139 1 9,587 30 85,701 31 95,288 2 138 1	12 121 121 121 121 23,506 6 23,506 6 23,506 3 1,880	22 230 230 14,139 9,587 36 109,207 118,794 5 2,018 10 30 10,207 5 2,018
*Total tolls levied. Total ships entering port, including Canal transit. Total ships clearing port, including Canal transit.		\$342,164.33 245 245	91,855.21 \$695,773.61 540 531
Total ships handled Net registered tonnage of vessels entering port. Net registered tonnage of vessels elearing port.	581 1,022,670 833,456	490 636,504 626,225	1,071 1,659,174 1,459,681
Total for vessels entering and clearing.  Registered gross tonnage of vessels entering port.  Registered gross tonnage of vessels clearing port.	1,455,018 1,270,594	1,262,729 993,104 978,212	3,118,855 2,448,122 2,248,806
Total for vessels entering and clearing.  Vessels entering port, but not passing through Canal.  Net tonnage of above.  Gross tonnage of above.  Vessels clearing port, but not passing through Canal.  Net tonnage of above.  Gross tonnage of above.  Vessels passing through Canal, and handling passengers or cargo at port—	437,812 532,138 60 238,652	1,971,316 7 17,012 24,493 7 16,811 24,287	4,696,928 76 454,824 556,631 67 255,463 359,571
Entering .  Net tonnage of above .  Gross tonnage of above .  Vessels passing through Canal and handling passengers or cargo at port—	42,763 69,981	78,261 136,692	73 121,02 <b>4</b> 206,673
Clearing. Net tonnage of above. Gross tonnage of above. Transit cargo arriving. Transit cargo eleared. tons.	31 49,594 81,942 787,719 781,798	43 77,032 134,246 834,396 813,725	74 126,626 216,188 1,622,115 1,595,523
Total transit cargo handled tons Local cargo arriving tons Local cargo shipped tons	. 117,287	1,648,121 2,427 537	3,217,638 119,714 7,467
Total local eargo handled tons Cargo reeeived for transshipment tons Cargo transshipped tons Total eargo arriving tons Total eargo eleared tons Cargo received by Receiving and Forwarding Agency of P. R. R. tons	36,907 49,767 941,913	2,964 296 837,119 814,262 6,308	127,181 37,203 49,767 1,779,032 1,652,757 59,822

^{*} Does not include \$8,111.25 levied for talls prior to February.

Item.	Cristobal.	Balboa.	Total.
Cargo dispatched by Receiving and Forwarding Agency of P. R. R. tons.	43,977	895	44,872
Cargo rehandled by Receiving and Forwarding Agency of P. R. Rtons	2,292	556	2,848
Total cargo handled by Receiving and Forwarding Agency of P.R.R. tons	99,783 51,201	7,759 6,040	107,542 57,241
Cargo stevedored, included in above	33,168	15 5,501	126 38,669
Panama Railroad vessels supplied with bunker coal.  Coal supplied above vessels. tons.  U. S. Army vessels supplied with coal.	5 829		829
U. S. Army vessels supplied with coal.  Coal supplied above vesselstons  Total vessels supplied with coal from Panama Railroad depositstons	131	$\frac{1}{21}$	5 152
Total coal turnished to vessels from Panama Railroad deposits tons	120 34,128	16 5,522	13 <b>6</b> 39,650
Coal supplied to P. R. R. departments.     tons.       Coal supplied Army, excepting vessels.     tons.       Coal supplied The Panama Canal     tons.	1,067 186		1,067 186
Coal supplied individuals and companiestons	1,771 422	508	2,279 422
Total coal furnished from Panama Railroad deposits	37,574	6,030	43,604
Coal on hand, March 1, 1920	42,314 53,912 49,172	13,733	43,604 42,314 67,645
Coal, U. S. Navy Account.  Coal furnished U. S. Navy, including vessels. tons.	2,267	19,763 967	68,935 3,234
Coal received during February tone		16,980	45,596
Coal on hand, March I, 1920 tons. Coal on hand, February 1, 1920 tons. Commercial vessels supplied with fuel oil from Panama Canal tanks.	30,883	17,947 12	48,830
Fuel oil sold to above vessels	17,328 2,814	27,059	44.387
Fuel oil issued to U. S. Navy. barrels. Fuel oil issued to U. S. Army. barrels.	204 5,326	54	2,814 204 5,380
Fuel oil issued to Canal departments. barrels. Fuel oil delivered to individuals and companies. barrels.	8,926	20,782 1,983	29,708 1,983
Total fuel oil furnished from Panama Canal tanksbarrels	34,598	49,878	84,476
Fuel oil received during the month barrels. Fuel oil on hand, March 1, 1920 barrels.	61,873 47,165	144 39,989	62,017 87,154
Fuel oil on hand, March 1, 1920. barrels. Fuel oil on hand, February 1, 1920. barrels. Other oil pumped for individuals and companies. barrels.	19,890 439,294	89,723 36,917	109,613 476,211
Diesel oil on hand, March 1, 1920. barrels.		1,396	1,396
Vessels supplied with water.  Water sold to ships. gals.  Yessels on which miscellaneous repairs were made. gals.	1 228	2,493,250	347 15,708,857
Vessels drydocked	51 9	86 13	137 22
Commercial vessels furnished commissary supplies Panama Railroad vessels furnished commissary supplies Other U. S. Government vessels furnished commissary supplies.	171	94	265 9
		13	64
Total vessels furnished commissary supplies.  Commissary sales to commercial vessels:	231	107	338
Ice. Wholesale groceries. Wholesale cold storage.	\$2,035.98 15,581.16 47,039.25	\$649.68 4,625.09	\$2,685.66 20,206.25
Laundry Miscellaneous	2,645.16	25,472.49 508.25	72,511.74 3,153.41
	3,560.53 \$70,862.08	\$33,550.59	\$104,412.67
Total. Commissary sales to Panama Railroad vessels: Ice.	\$60.72	940,000.09	\$60.72
Wholesale groceries Wholesale cold storage.	1,034.10 3,975.30		1,034.10 3,975.30
Laundry. Miscellaneous.	576.13 233.03		576.13 233.03
Total Commissary sales to other Government vessels:	\$5,879.28		\$5,879.28
Ice	\$755.07	\$259.61	\$1,014.68
Wholesale groceries Wholesale cold storage	14,103.76 28,153.23	2,217.31 5,208.99	16,321.07 33,362.22
Laundry Miscellaneous	161,20 4,511.90	810.38	161,20 5,322.28
Total	\$47,685.16	\$8,496.29	\$56,181.45
Total commissary sales to all vessels	\$124,426.52	\$42,046.88	\$166,473.40
First cabin.  Other than first cabin.	2,856 1,173	1,292 1,119	4,148 2,292
	1	2,411	6,440
Total.  Passengers departing, including transit passengers: First cabin.	2,602	1,293	3,895
First cabin Other than first cabin.		1,128	2,264
Total. Total movement of passengers.	3,738 7,767	2,421 4,832	6,159 12,599

Item.	Cristobal.	Balboa.	Total.
Passengers disembarking: First cabin. Other than first cabin.	1,434 522	199 66	1,633 588
Total	1,956	265	2,221
Passengers embarking: First cabin Other than first cabin	1,222 486	200 75	1,422 561
Total	1,708	275	1,983
Seamen shipped. Seamen paid off.	323 201 5	91 36	414 237
Seamen deserted Seamen lodged, subsisted, and repatriated. Warcs of American seamen:	39	31	5 70
Total amount earned	\$10,094.55 580.00	\$5,869.38 2,414.42	\$15,963.93 2,994.42
Balance due seamen. Paid to seamen. Received on deposit for seamen. Services to American vessels:	6,253.16	\$3,454.96 259.68 3,195.28	\$12,969.51 6,512.84 6.456.67
Crews shipped. Crews paid off. Shipping articles written	1		2 1 2
Marine notes of protest noted. Bills of health issued.	15 164	6 118	21 282

#### LOCK OPERATIONS.

Lockages of commercial vessels for the month were as follows:

	Number of lockages.					
	North.	South.	Total.	North.	South.	Total.
GatunPedro Miguel.		89 84	182 177	107	101	208 210
Miraflores.		• 92	188	109	101	210

All lockages, including Army and Navy vessels, those of the Panama Railroad and The Panama Canal, are included in the following statement of lockages for February:

Lockages.	Gatun.	Pedro Miguel.	Miraflores.
Commercial Noncommercial, Army and Navy Noncommercial, Canal equipment	12	177 18 24	188 17 11
Total. Vessels: Commercial. Noncommercial, Army and Navy. Noncommercial, Canal equipment.	208	219 210 46 62	216 210 46 49
Total	263	318	305

The total consumption of water for lockages during February was 1.404,570,000 cubic fect. The consumption by locks was as follows:

	Gatun.	Pedro Miguel.	Miraflores.
Lockage. Leukage Maintenance.	20,000,000	Cubic feet. 620,950,000 23,530,000 92,140,000	Cubic feet. 667,860,000 15,000,000 8,070,000
Total	803,620,000	736,620,000	690,930,000

## METEOROLOGY.

This was the driest February of record since the American occupation, being slightly drier than February, 1912, previously the driest February of record. Rainfall varied from none at Miraflores to 1.61 inches at Porto Bello. The greatest amount recorded on any one day was 0.32 inch at Gatun on the 13th and at Porto Bello on the 15th. The estimated rainfall over the Gatun Lake watershed was 0.44 inch, compared with a 10-year mean of 1.82 inches; over the Chagres River basin above Alhajuela it was 0.74 inch, compared with a 19-year mean of 1.63 inches. There was a decrease in

storage of 6,100 million cubic feet. The Gatun Lake watershed total yield was the lowest February yield on record, being 64 per cent below the 10-year mean, or 705 c. f. s. against a mean of 1,952 c. f. s. The maximum February total yield since the existence of Gatun Lake was 5,077 c. f. s. in 1915. The draft for lockages and electric power from Gatun Lake was 2,055 c. f. s., as compared with 2,284 c. f. s. for last month, and 1,951 c. f. s. for February of last year. The elevation of the lake varied from a maximum of 85.95 feet on the 1st to a minimum of 84.56 feet on the 29th. Miraflores Lake varied from a maximum elevation of 54.10 feet on the 11th to a minimum elevation of 53.06 feet on the 9th, ending the month at elevation 53.80. Five seismic disturbances were recorded during the month, all of which were too

Five seismic disturbances were recorded during the month slight to be felt locally.

#### ELECTRICAL DIVISION.

Gatun hydroelectric station—The gross output of this station for February was 5,221,000 KWH on a computed water consumption of 3,745,080,000 cubic feet. No interruptions in service occurred. Unit No. 2 was out of service during the month on account of burn-out in coils of auto-transformer; but has been repaired and will be placed in service soon.

Miraflores steam plant—This plant consumed 131,170 KWH in excess of its output, with generators floating on line for stand-by service. The oil consumption amounted

to 2,155 barrels.

Total power output—The total gross output of both plants was 5,221,000 KWH; the total power distributed to consumers was 4,502,610 KWH. The total loss of power plant auxiliaries, transmission, transformation, and operation of the steam plant generators for stand-by service was 718,390 KWH, or 13.75 per cent of the gross output

Transmission line—System service was interrupted on the 5th caused by the breaking of ground wire on line No. 2 at tower 15-2, resulting in slight interruptions at Cristobal; Darien, Gamboa, and Balboa. On the 19th trouble on 2,200 volt circuit out of Gamboa substation threw this station off the line for 1 hour and 8 minutes; and on the following day trouble at this substation resulted in an interruption at Gamboa for 8 minutes. The work of painting the transmission line towers has been advanced to 60 per cent completion.

advanced to 60 per cent completion. Substations—There were 16 interruptions occurring at the substations; 2 at Cristobal, 2 at Gatun, 10 at Miraflores, and 2 at Balboa. With the exception of those at Miraflores, the interruptions were slight. Feeder D (Cucaracha) at the Miraflores substation was out of service on 10 occasions, causing a total interruption of 8 hours

and 56 minutes.

New construction work—The installation of a new 8,400 KVA transformer and three new tie-line equipments at Gatun substation is 6 per cent complete. The electrical work in connection with the installation of equipment at Mount Hope cold storage plant has been completed. The work at Pier 6, Cristobal, was 99 per cent completed.

Marine work—This division installed and repaired miscellaneous electrical equip-

ment on 56 vessels during the month, 35 at Cristobal and 21 at Balboa.

#### SHOP, FOUNDRY, AND DRY DOCK WORK.

The greater part of the wood decking of the steamship *Cristobal* was laid during February and a considerable amount of the partition work of the passenger accommodations completed; the engines and boilers were made ready for dock trial.

The oil-burning installation on the steamship *Acajutla* will require about two more weeks for completion. Boilers were placed in the cruiser *Lima* and the work on this vessel very nearly completed. General overhaul work was done on the *Lake Fitch*. *Cawker*, *C-32*, and *Xenia*. The erection of the second sand crane at Gamboa was

completed.

At the Cristobal shops, the repairing of the boiler of the steamship *Battonville* was completed and the ship was drydocked and caulked. The overhauling of the engine and the repairing of the boiler of the tug *Engineer* was completed. Extensive engine room repairs were made on the steamship *Chile*. The overhauling of the steamship *Culebra* was continued; and the necessary alterations to enable the steamship *Middlebury* to carry cattle from Colombia to Cuba were completed. The schooner *W. H. Marston* was drydocked and caulked as directed by the surveyors.

The steamship Marne was refloated and made ready for towing to docks for unloading of cargo. This ship, which was sunk in Cristobal harbor on January 24, for the purpose of extinguishing a fire aboard, was raised by forces of this division assisted by employees of the Dredging Division. The hull of the Marne was completely submerged and had several large holes produced by the shots fired into it when this method of sinking it was found necessary. The cargo, all oils and highly inflammable.

added a further difficulty to the work of salvage. As soon as possible after the fire had been extinguished the work of raising the vessel was begun. The bulkwarks of the ship were extended above the surface of the water by bolting to them sections formed of planks secured together in as nearly a water-tight manner as possible. Divers were employed in patching the holes in the hull; and when the bulwarks had been completed and the holes in the hull made as nearly water-tight as temporary patching permitted, several pumps were installed in various parts of the vessel. With these and with the aid of those of the ship, it was pumped out sufficiently to float, the stern rising first and several hours later the bow also came to the surface. As soon as all the water possible to reach with the pumps had been taken out, the vessel was towed to dock No. 6, Cristobal, reaching there March 1, when the work of removing cargo was immediately begun; this had proceeded until the 6th, when in the early morning a heavy explosion occurred in the vicinity of the engine room of the ship followed instantly by the outbreak of another fire. The Marne was immediately towed out from the dock to a position off the end of the mole where she sank again in about 40 feet of water, the bow remaining above the surface. This second fire was extinguished and the work of again bringing the ship to the surface is proceeding in much the same manner as has been described.

The following vessels received miscellaneous repairs at Cristobal shops and dry dock: U. S. S. Bath, Brazos, Breakwater, Dreadnaught, Eagle No. 11, Eagle No. 31, Nevada, Oklahoma, R-24, Sonoma, subchasers Nos. 282 and 285; U. S. Army cargo barge, Maj. A. G. Forse, and C. W. Field; steamships Achilles, Agarista, Allianca, Arawa, Atenas, Balboa, Barbadian, Battonville, Beaumont, Bradford, Cacique, C. A. Canfield, Calamares, Caribbean, Carillo, Cathcoon, Cauca, Chile, Clauseus, Colon, Craigsmere, Craycroft, Crisfield, Edgar F. Luckenbach, General Goethals, General Gorgas, Guatemala, Haarlem, Holbrook, Jamaica, Lake Berdan, Lake Buckeye, Lake Filion, Lake Lesa, Laura C. Hall, Manavi, Mantara, Marne, Middlebury, Overbrook, Owatonna, Peru, Point Judith, Robin Adair, San Blas, San Juan, San Jose, Salvador, Santa Marta, Ucayali, Urubamba, Van Rensselear, W. L. Steed, W. S. Rheem, Wilfred Laurier, and Xenia; launches Capron, J. W. Mc Kee, Rodman; tugs Coco Solo, Engineer, La Boca, St. Ewe, St. Mabyn, St. Minver, and Tavernilla; Swedish cruiser Flygia. The following vessels were drydocked at Cristobal: U.S. Army barge, Maj. A.G. Forse and C. W. Field; U. S. S. Breakwater, Eagle No. 31, steamships Battonville, Boxley, and San Blas; schooners Linda S. and W. H. Marston.

The following vessels were at Balboa shops and drydock for repairs: U. S. S. Cleveland, Ontario, R-21, R-22, R-23, R-24, R-25, R-26, and R-27; steamships Acajutla, Alanthus, C-32, Cawker, City of Berkeley, Cculee, Coutclene, Cristobal, David, Dryden, Eglantine, Firthcliffe, Grayson, Ipswich, Lady Sybil, Lake Capens, Lake Fabyan, Lake Filbert, Lake Fitch, Lake Frenchton, Lake Garza, Lake Gebhart, Lake Stobi, Los Santos, Masula, Mateo, Petunia, Rosalie Mahoney, West Hesseltine, Xenia, and Yosemile; motorships Cethana, Chiriqui, and Laura C. Hall, schooner Almirante; cruiser Lima; tender Perico; yacht Uncas. The following were drydocked: Submarines R-21, R-22, R-23, R-24, R-25, R-26, and R-27; steamships, C-32, Cawker, Lake Fitch, Lake Garza, and San Joaquin; dredge Paraiso.

The output of the Mechanical Division in patterns made and foundry production for February is shown as follows:

	Febr	uary.	Janu	ary.
tron Steel Brass		Pounds. 58,893 32,006 21,533	Patterns. 46 11 67	Pounds. 95,914 37,571 24,720

The usual repair and maintenance work of this division included among other items, the following:

Care renaired	
Cars repaired	1,631
Document of and cranes repaired	-
assenger coaches packed, cleaned, oiled, and inspected	3.474
** Cognit Care repacked	(00
Locomotives nostled	1 460
Cranes hostled	1,409
Locomotives ridden	209
Locomotives inspected	64
Locomotives inspected	78
Crews instructed in nandling locomotives	18
Citro instructed in all Diakes.	11
Cranes, locomotive, inspected	
	22

#### BUILDING CONSTRUCTION.

The Building Division had the following items of construction underway during February, with the progress indicated:

			cent
Moving 3 type-18 houses from Los	Conneder to Dalle	com	pleted.
Moving 7 type-15 houses and 1 type	7 haves from I Co	com	100
Moving 7 type-15 houses and 1 type	e-7 nouse from Las Ca	scadas to Pedro Miguel:	
Five houses		······································	100
			95
Colon stables:	sland incinerator		95
Colon stables:			
I wo stables			50
Ola Stables			3
One stable			(*)
rive wagon sneds			` ´ 5
			5
reed fooms and quarters			60
Shop bunding			70
Deposit pits	* * * * * * * * * * * * * * * * * * * *		45
curver townsite, Mount Hope:			
Commissary			25
Eight quarters			(†)
Ten quarters			15
I Wo quarters			5
			(*)
			(‡)
Cristobal incinerator	00.0		20
Combination shop and storehouse, (	Cristobal		20
Excavation	Criscopar.		50
Foundation forms and plant			100
Royal Mail Steam Packet Company	y's office Cristobal.	Excavation	50
Moving 3 type-7 houses from Lac C	Sacadae to New Crie	tobal	10
Oil storage shed Balboa store	ascadas to New Clis		100
Moving old police station from Las	Casandan to Camban		90
Converting old kitchen Angen Has	nital into familia and	rtments	100
Converting Section F Ancon Hospi	pital, into railing apa	ers	99
Converting different wards, Ancon	Tai, into family quart	ers	99
Word 17	mospital, into family	quarters:	00
Word 10			90
Ward 10			95
Marin a baddin - 210 and	*::::::::::::::::::::::::::::::::::::::		95
Moving building 210 and converting	g into maids' quarter	S	50
Playsned, Pedro Miguel			50
Playsned, Gatun			30
Field office, Paraiso, Dredging Divi	sion		5
MOVING Dachelor quarters and old t	nav office ( ristobal		100
Freight and rest room, Friioles			90
Erection of steel signal tower, Pier	No. 6, Cristobal		100
(*) Not started.		(1) Complete, except painting.	
( )	(1) New cou.	(+) Complete, except painting.	

The construction work performed by the Building Division for the Army and Navy is separately reported.

#### DREDGING DIVISION.

Cucaracha slide became active on the 21st and during that night and the morning of the 22d, it is estimated that 100,000 cubic yards of material moved into the Canal. About 50,000 additional cubic yards of material developed between the east prism line and the old shore line on the east. The dredges Cascadas and Paraiso were moved from Balboa and Culebra, respectively, and immediately put in operation at this area, both dredges working double shifts for the remainder of the month. This slide extended from the south side of Gold Hill to the north slide of Purple Rock, reaching from the Canal eastward for approximately 2,000 feet in the break of the hill. Shoaling within the Canal prism took place between stations 1805 and 1813, extending entirely across the Canal to the west prism line. There was little interference with Canal traffic and a minimum channel depth of 33 feet was maintained during the time the slide was most active.

East Culebra slide showed no movement during the month. At barge repair slide a small surface movement continued throughout the month.

The total excavation by dredges during February was 314,915 cubic yards, as follows:

Cubic yards.	Earth.   Rock		Character of work.	Stations.	Equipment.
(a) 29,500 (a) 8,800	5,900 1,800	23,600 7,000	Maintenance Maintenance	Paraiso P. I. Impr. 1889-50 to 1904-00 W. 1889-50 to 1902-50 W. Gaillard Cut.	
(a) 1,700 (a) 9,400 (a) 21,600 (a) 16,300	1,700 2,400 6,500 6,500	7,000 15,100 9,800	Maintenance Maintenance Maintenance Maintenance	1814-50 to 1816-C. L. 1793-50 to 1791-50 W 1805-00 to 1813-00 E. and W. 1805-00 to 1813-00 E. and W	

Cubic yards.	Classific Earth.	Rock.	Character of work.	Stations			Equipment.				
(b) 70,000 (b) 46,000 (c) 19,850 (c) 10,650 (c) 3,500 (d) 14,839 (d) 2,326 (d) 1,400 (d) 1,050	70,000 46,000 19,850 10,650 3,500 58,000 Gravel. 14,839 Sand. 2,326 Mud. 1,400 1,050	/	Maintenance. Maintenance. Maintenance. Construction. Maintenance. Aux. const'n. Aux. const'n. Aux. const'n.	Pacific Entr 2137-00 to 2115-00 W 2207-60 to 2214 20 E Balboa inner harbor Balboa inner harbor Balboa, for Panama Railro Balboa inner harbor Chagres River gravel bed Uncovering gravel bed Dredging at gravel plant ar		No. 83. No. 84. Cascadas. Cascadas. Cascadas. No. 84. Marmot. Marmot. Marmot.					
314,915 252,415 62,500 Total for month.  (a) Gaillard Cut. (b) Pacific entrance. (c) Balboa inner harbor. (d) Chagres Rive											
Gatun lake San Juan du Flats west o At sea Gamboa ger Deep water, Total	north of imp f Canal. vel plan Chagres	Gamboa		to be done on March			. 104,000 . 70,000 . 34,000 . 17,165 . 2,450				
- THE TOTA			Location.	to be done on water	Earth.	Rock.	Total.				
			Location.		Cu. yds.	Cu. yds.	Cu. yds.				
					50,500	25,000 86,900	25,000 137,400				
Total Car Cristobal coal	nal prism. ing station	 			50,500	111,900 2,100 13,400	162,400 2,100 130,250				
Total, oc	ean to oce	an			167,350	127,400	294,750				
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Construction work in the southern district progressed to the following status on March 1:

Storm sewer, Javillo fill.

Sewer, Northern Avenue to beach.

Box sewer, Panama Railroad yards.

Municipal work for 8 houses. Pedro Miguel.

Municipal work for 8 houses. Pedro Miguel.

Municipal work for 3 type-18 houses. Balboa

Municipal work for 3 type-18 houses. Balboa

(*)

Industrial track between buildings 8 and 14, Balboa shops.

(*)

Sewer and water lines for C. & S. A. Telegraph Company, Balboa

(*)

(*) No work done.

The total output of all pumping stations for February was 859,806,160 gallons; and that of the three filtration plants, 531,656,000 gallons. Panama City was furnished with 79,631,000 gallons, and Colon with 52,183,875 gallons. Sales of water to 347 vessels amounted to 15,708,857 gallons.

There were 2,813 tons of garbage and 7 dead animals consumed at the Gavilan

Island incinerator during February:

# WORKING FORCE. (Effective February 4, 1920.)

Department or Division.	Gold.	Silver.	Total.
Operation and Maintenance: Office. Building Division. Electrical Division. Municipal Engineering Division. Lock Operation. Dredging Division Mechanical Division. Marine Division. Marine Division. Fortifications.	110 164 148 1,034	50 1,799 369 1,775 642 971 1,948 432 269	86 2,213 625 1,885 806 1,119 2,982 573 319
Total Supply Department: Quartermaster Subsistence. Commissary Cattle Industry. Hotel Washington	2,353 153 32 271 30	8,255 1,775 417 1,626 1,367 97	10,608 [1,928 449 1,897 1,397 103
Total	492 238 242	5,282 11 898 302	5,774 249 1,140 844
Total Panama Railroad: Superintendent Transportation Receiving and Forwarding Agent Coaling stations	78 134 84	1,211 563 198 1,757 965	2,233 641 332 1,841 1,049
Total	380	3,483	3,863
Grand total	4,247	18,231	22,478

The total gold force employed on February 4 was 133 more than the 4,114 at work on January 7, and the silver force was 17 more than the 18,214 working on that date. As compared with the gold force for the corresponding period of last year, reported as of February 5, 1919, the present force is an increase of 753 over the 3,494 employed on that date, and the silver force 7 less than the 18,238 on the payrolls of the same date.

#### STRIKE OF SILVER LABORERS.

As a result of my refusal to grant the demands of the organized silver laborers for an increase in pay of 7 cents an hour, and certain other conditions of employment, there was an organized strike of approximately 15,000 of 17,000 laborers on February 23. An investigation of the cost of living of these laborers and their rates of pay resulted in granting them an increase of 2 cents an hour, or \$5 a month to monthly employees, effective February 1. This increase was granted after it had been determined that the increase in cost of the essentials of food and clothing had over-reached increases in pay. No further increases were justified.

Realizing that the mass of these men had been misled and misinformed, I announced that all who were not back at work on February 26 would be considered as having voluntarily left the service without due notice. Rules of long standing provide that in such cases re-employment may be only at a lower rate of pay than that received at the time of quitting. Meanwhile steps were taken to clear the Canal quarters of

persons not employed, and to fill the places of the men who had quit work. On March 2, the strike leaders officially advised the men to return to work; and a few

days later the force was at its normal strength.

Except for about 2,000 West Indians and native laborers who remained loyal to the work, the strike of silver roll employees was complete. Thanks to the readiness of the American employees to turn to whatever work was given them to do, it was possible to keep the Canal in operation, to feed and provide the force with water and light.

#### OCCUPATION OF OUARTERS.

The following statement shows the occupants by numbers, as classified, of Panama Canal and Panama Railroad quarters on February 29:

	Men.	Women.	Children.	Total.
Americans, Europeans, West Indians,	131	2,190 39 1,493	2,494 49 2,576	8,277 219 7,823
Total	7,478	3,722	5,119	16,319

#### PUBLIC HEALTH.

There were 43 employees, 11 nonemployees, and 1 nonresident, discharged from Canal Zone hospitals on account of malaria during February; a total of 55 cases as compared with a total of 59 cases during January. There were no deaths from malaria. Influenza caused 26 admissions and 3 deaths as compared with 15 admissions and no deaths last month. Two deaths occurred from pneumonia and 9 cases were discharged as compared with 4 deaths and 7 discharges during January. There were 14 cases of chickenpox reported; 4 more than last month. One case of smallpox, a non-employee from Panama, was admitted during the month. Two cases of scarlet fever, both children from the same family in Panama, were admitted. Two cases of typhoid fever, also children from Panama, were admitted. There was 1 case of paratyphoid fever, a nonresident, and 1 case of relapsing fever, a colored employee living in Panama.

#### RECEIPTS AND SALES OF MATERIAL AND SUPPLIES.

Material ordered on United States requisitions was received during February in the total amount of \$530,558.37; receipts for January were \$733,946.90. Of the February receipts, \$442,748.27 was chargeable to Operation and Maintenance; \$81,161.38 to Construction and Equipment; and \$6,648.72 to miscellaneous departments. Cash sales on the Isthmus from storehouses and obsolete store amounted to \$115,488.57, of which \$37,393.93 was for stock material, \$76,556.52 for fuel oil.

\$860.69 for obsolete material, and \$677.43 for scrap.

The total sales of material from storehouses to steamships for February was \$99,797.71, of which \$26,215.84 was for stock material, and \$73,581.87 for fuel oil. Sales of commissary supplies to all purchasers for February totaled \$1,007,830.62, made up as follows: To steamships, other than United States Government vessels and those of the Panama Railroad Steamship Line, \$105,780.90; to The Panama Canal, \$131,139.82; to the United States Government, including the Army and Navy, \$181,850.41; to individuals and companies, mainly through charge accounts in the retail commissaries, \$20,725.22; to the Panama Railroad, including its steamships and the Hotel Weshinston. ships and the Hotel Washington, \$32,321.52, and to individuals purchasing coupons. \$536,012.75.

# FINANCIAL RECEIPTS AND EXPENDITURES.

The cash balance in Canal appropriations on February 29, exclusive of Fortifications, was \$13,817,186.97; the balance in Fortifications was \$6,682,840.35. Payments from appropriations made by the Disbursing Clerk, Washington, amounted to \$622,458.08, and by the Paymaster on the Isthmus to \$1,513,030.60. Purchases of

commissary books from the Panama Railroad Company amounted to \$370,653.45. Collections of tolls on the Isthmus totaled \$658,141.86. Deposits of \$124,002.70 were made with the Assistant Treasurer of the United States in payment of tolls and other charges against vessels using the Canal. The total Panama Canal collections on the Isthmus were \$2,165,378.38; and collections by the Disbursing Clerk, Washington, \$42,725.53. Receipts from Canal Zone and miscellaneous funds were \$217,-396.93; disbursements from the same source were \$269,255.53. February payrolls on the Isthmus aggregated \$1,234,877.50 as compared with \$1,274,681.22 for January, a decrease for this month of \$39,803.72.

Respectfully.

CHESTER HARDING, Governor. Distribution Among Ports of Cargo Fassing Through the Canal From Pacific to Atlantic, February, 1920.

London, England.	65. 8 8 65. 8. 114 6.423	28,405	[stoT]	1,697 2,227 8,060
Leith Scotland.	7,204	7,204	W. Hartle- pool, Eng.	
La Pallice, France.	7,409	7,469	Wilmington, Del.	
Kingston, Jamaica.	7,000	7,000	United Kingdom.	
 Науте, Тапсе.	3,000	3,000	,copico,	
Hampton Roads, Va.	3,650	9,616	Savannah, Ga.	16,036
Hamburg, Germany.	660'6	660,6	Rotterdam, Netherlands.	
Genoa,	5,200	5,200	Queenstown, Ireland.	
Dunkirk, France.	5,466	14,916	Philadelphia, Pa.	1,697
Cristobal, Canal Zone	7,400 1,387 8,066 3,227 8,000 1,350 1,419 6,946	43,072	Pensacola, Fla.	
Charleston, S. C.	8, 660	28,101	Ostend, Belgium.	
Cardiff, Wales.	6,201	6,261	Nykobing, Sweden,	
Boston, Mass.	3,000	3,000	Norfolk, Va.	
Barcelona, Spain.	3,700	3,700	New York,	5,884
Baltimore, Md.	2 % 5 % % % % % % % % % % % % % % % % %	11,419	New Отleans, La.	
Azores.	6,260	6.260	Mindi, Canal Zone.	
Antwerp, Belgium.	90 60 60	8,526	Lisbon, Portugal.	3,600
Alexandria, Egypt.	7,600	7,600	Liverpool, England.	
From	Astoria, Oreg.  Antodiagasia, Chile Buenaventura, Colombia. Caleta Buena. Caleta Buena. Caleta Buena. Chapmerorio, Guatemata. Corinto, Nicaragaa. Corinto, Nicaragaa. Goninto, Nicaragaa. Iquique, Chile. Junin. Chile. Junin. Chile. Portland. Oreg. Portland. Oreg. Portland. Oreg. San Prancisco, Caleta. San Francisco, Caleta. Singapore. Straits Sett San Singapore. Taleah Chile. Taleah Chi	Totals	From—	Asteria, Oreg. Antofagasta, Chile Buenaventura, Colombia. Callao, Peru.

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(Continued on page 489, column 2.)

WOODROW WILSON

#### Executive Order.*

The area of land hereinafter described situated in the jurisdiction of the Canal Zone is hereby set apart and assigned to the uses and purposes of a radio station and other naval purposes, under the control of the Secretary of the Navy; but the said area shall be subject to the civil jurisdiction of the Canal Zone authorities in conformity with the Panama Canal Act. The said area is described as follows:

# PUNTA MALA NAVAL RADIO STATION.

The said radio station is part of the tract of land heretofore set apart for the uses and purposes of the Punta Mala Lighthouse of The Panama Canal, and comes

within the following metes and bounds:

Commencing at the southernmost point of the said Radio Station, which point is designated on the blueprint herewith attached numbered 6030-2, dated June 18, 1919, and signed O. E. Malsbury, Assistant Engineer, as Point "B," and is marked by a concrete monument; thence north seventy degrees, ten minutes, thirty-one seconds (N 70° 10′ 31″) west, five hundred and seventy eight feet (578′) more or less, to a concrete monument at the intersection of this line with the western boundary of the Punta Mala Lighthouse Reservation, designated on said blueprint with the letter "D;" thence north (true) six hundred and ten feet (610′), more or less, to the intersection with the low water shore line of the cove at the northern end of the Reservation. The line then follows the shore line of the cove to the northern end of the small point, thence following the low water shore line in a southerly direction until the point "F," shown on the blueprint, is reached. The line then runs south sixty-one degrees, three minutes, twenty-nine seconds (S 61° 03′ 29″) west a distance of five hundred and eighty-nine and five tenths feet (589.5′) to the place of beginning marked "B" on the said blueprint. The total area of the Radio Station is approximately thirteen and seven tenths (13.7) acres.

The shelter cove at the northern boundary of the Radio Station which is used at high tide for landing supplies for the lighthouse as well as the Radio Station, shall be available for use of both the Lighthouse and Radio services, and a right of way is hereby allowed the Punta Mala Lighthouse service through the Naval Reservation for the purpose of transporting supplies to and from the Lighthouse Reservation

and the said landing.

THE WHITE HOUSE,

1 March, 1920.

[No. 3237.]

Published as Panama Canal Circular No. 601-109.

Use of Codes in Telegraphic Communication with the Canal.

The Panama Canal and the Panama Railroad Company can handle cable messages in practically any of the leading commercial codes, but in order to expedite the handling of business, attention is invited to the fact that the following are among the codes usually employed in Canal business:

Scott's Shipowners' Telegraphic Code (1906 ed.), designation Scotts;

Bentley's Complete Phrase Code, designation Bentleys;

Lieber's Standard Code, designation Liebers;

ABC Universal Commercial Electric Telegraph Code, Improved 5th edition, designation ABC;

Western Union Telegraphic Code (5-letter and Universal editions),

designation Wu;

General Telegraph Code, designation General.

The senders of messages in code are advised to precede the message proper with the designation indicating the code employed; while this is not absolutely necessary it saves time and affords protection against

misinterpretations.

The cable address of The Panama Canal on the Isthmus is Pancanal, Panama; in the United States, Pancanal, Washington. The cable addresses of the Panama Railroad Company or Panama Railroad Steamship Line are Panrailco, Panama, and Panrailco, Newyork. Messages should not be sent to individuals, when they concern business with the Canal or Railroad. Addressed to the organization, as above, they will be placed in the hands of the proper individual.

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight March 27, 1920.

	Canal	Net	2,244 4,916 5,470 5,824 5,163 5,419	4,289	5,627 4,517 4,517 4,670 5,070 3,593 7,59 4,019 11,907 4,442	2,480 6,215 5,316 4,322		1,702 2,938 1,528 4,670 1,413
THROUGH THE CANAL—ATLANTIC TO PACIFIC.	Panama Cana Tonnage	Gross	7,278 7,285 7,285 7,285 8,219 8,219 8,219 1,173	5,887	7,440 6,222 6,617 6,617 6,625 7,192 1,241 1,241 7,053 7,053	3,497 9,089 7,657 7,854		3,225 4,506 2,552 2,342
	Tons		8,005 7,200 7,200 7,500 8,617	820	8,300 (b) 150 7,264 7,264 1,909 3,087 9,000	3,800	THROUGH THE CANAL-PACIFIC TO ATLANTIC.	1,773 3,225 5,132 4,506 5,409 3,062 2,552 10,400 6,322 8,500 6,322 2,828 2,342
	Cargo		General General Cotton, rosin. General General General General	General	General Gasoline, etc. Gasoline, etc. General General General General General General General	General Fuel oil, etc. General General		General General General Nitrate Flour Nitrate, Nitrate,
	For		Callao	Valparaiso Chile	San Francisco. San Francisco. San Prancisco. San Prancisco. Nagasaki. Tumaco. Tumaco. Valparaiso. Gasyaquil San Francisco. Tocopilla. Tocopilla.	Iquique Talcahuano Balboa San Francisco. Valparaiso		Cristobal Liverpool London Charleston New York Charleston
	From		Cristobal Savannah Savannah Newport News New York Cristobal Cristobal New York	Genoa Newport News	Copenhagen. Philadelphia. Philadelphia. Balfimore. New York Cristobal Genoa. Cristobal Gothenborg. Tampico. Philadelphia	Cardiff New York Port Arthur New York		Guayaquil Coquimbo Melbourne Tocopilla Tacoma Antofagasta Mejillones
	Salt water draft		18.6 27.5 19.7 23.6 25.1 17.6	16.0 15.6	25.0 22.3.8 23.6 22.7.0 22.7.0 15.6 15.6	16.0 24.8 21.1 26.6 16.6		18.8 23.3.4 25.0 27.0 27.0 21.0
	Length Beam		466.3 55.2 55.2 58.2 58.2 58.2 58.2 58.2	51.0	55.0 55.0 55.0 55.0 55.0 57.0 57.0 57.0	43.1 57.0 60.0 58.0		43.1 54.1 56.0 55.9 58.8 43.5
	Length		374.7 411.0 409.7 449.0 450.0 326.0	$\frac{378.0}{248.6}$	425.0 409.5 409.0 410.0 190.0 380.0 216.0 253.0 424.8 385.0	340.0 449.0 477.1 445.0 370.0		350.0 390.0 426.0 267.3 415.1 402.6 250.5
	Line		Peruvian Line United States Shipping Board. United States Shipping Board. United States Shipping Board. New Zealand Shipping Co. Commonwealth and Dom. Line. Class, Simonsen Pacific Mail Steamship Co. Nippon Yusen Kabushiki Kaisha	National Navigation Co United States Shipping Board	Peter Olsen  United States Shipping Board  United States Shipping Board  United States Shipping Board  United States Shipping Board  Colombian Maritime Co.  La Voice Steamship Line.  Petelfs Steam Navigation Co.  Johnson Steamship Line.  United States Shipping Board  W. Willielmson.	Inui Gomei & Co. Pacific Steam Navigation Co. United States Navy. Nippon Yusen Kabushiki Kaisha Royal Netherland W. I. Mail.		Pacific Steam Navigation Co Pacific Steam Navigation Co Commonwealth and Dom. Line. United States Shipping Board United States Shipping Board United States Shipping Board
	Nationality		Peruvian. American. American. British. American. American.	Italian	Norwegian. American. American. American. American. Italian. British. Swedish. American. Norwegian.	Japanese British American Japanese Dutch		British British Aritish American American American
	Cleared for sea	TwoH	8.32 3.50 7.50 2.18 11.22 23.09	19.41 $20.43$	9.17 20.20 11.48 11.48 9.40 15.00 22.35 22.45 22.45 22.45 22.45	14.35 20.06 13.26 22.00		12.15 11.27 11.27 6.37 20.30 6.30
	Completed Cl transit fo	Day	21 20 20 20 55 55 26 27 27 27 26 46 26 26 46 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27	13 26 19 27	26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	20 28 24 27 20 27 20 27		00 30 26 443 26 45 26 27 10 26 00 26
		TwoH	238-01-827	5 22.03	822222228	20 11 10 10 10 10 10 10 10 10 10 10 10 10		8828888
	Entered Co Canal t	Day	6.09 25 6.23 26 6.40 26 10.36 26 11.16 26 6.10 25 6.10 25 6.15 26	40 25 27 25	08 256 255 255 256 256 256 256 256 256 256	10 26 27 27 45 27 15 27 40 27	3.	42 25 25 25 24 25 25 25 25 25 25 25 26 43 25 25 25 25 25 25 25 25 25 25 25 25 25
		THOH	l .	9.6	44444800000	7 6.7	cases	10.7.
	Arrived I	Hour	19.15 23.14 23.14 14.50 17.20 22 17.15 22 18.20 23 13.52 23 13.52	.42 23 .15 23	15.53 24 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.	12.37 26 11.40 27 21.23 27 6.03 27 6.15 27	(b) 190,000 cases.	20 22 22 22 20 23 20 23 25 25 25 25 24 24 24 24 24 24 24 24 24 24 24 24 24
		Day	16 19 6 23 6 19 7 7 22 22 22 22 13 8 13 8 13 8 13 8 13 8 13	22 12. 22 6.	25 25 11 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25 12 26 11 24 21 27 6 23 6	(b) 1	22 22 88. 22 22 88. 24 24 16. 3 2 24 16.
	Ship		on. :e.	1:		Kenkon Maru No. 12 Ebro. Sapelo. Tokiwa Maru. Delft.	(a) Launch.	Peru. Sorata. Port Macquarie 2 Cawker. Eastern Knight 2 Effina. Lake Berdan.

2,288	4,081	4,061	3,073	653	1,503	4,178	:	1,434	602		2,942	:
3,814	6,578	6,534	4,760	1,170	2,544	6,533		2,331	1,138		4,942	:
2,066	8,025	8,700	1,845	929	3,000	1,300	2,227	3,000	771	1,425	4,226	9,100
General	Nitrate	General, lumber.	General	General	Nitrate	Crude oil	General	Nitrate	General	Lumber	General	Nitrate
Cristobal												
Valparaiso	Mejillones	Singapore	Callao	Buenaventura.	Tocopilla	Iquique	San Francisco.	Caleta Buena.	Tumaco	Grays Harbor.	Valparaiso	Antofagasta
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379.6						420.3	307.7 4	251.0 4	220 0 3	265.8 4	360.2 5	402.6   5
Chilean Line	D. Steen	Dollar Steamship Line	Peruvian Line	Pacific Steam Navigation Co	United States Shipping Board	C. T. Bowring & Co	Pacific Mail Steamship Co	United States Shipping Board	Parific Steam Navigation Co	United States Shipping Board	W. R. Grave & Co	United States Shipping Board
Chilean	Norwegian.	British	Peruvian	British	American	British	American	American	British	American	American	American
	26 21.30	27 6.20	:	:	:	:	-	27 23.3	:	28 23.40	27 18.45	
25 22.40	21.12	19.08	25 23.45	25 20.42	:				27 20 43			
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(c) For orders.

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	For.	Cartagena. New York. Mobile. Colon. Norolfik. Blacfedds. Galveston and wayports. New Orleans, wayports. Tampico. Tampico. Tampico. New York and Halata. New York and Halata. Colombian ports.
*DEPARTURES.	Line.	Panama Railroad Cattle Industry. Cartagena. United States Shipping Board. Mobile. W. V. N. Powellson. Golou. Panama Railroad Steamship Line. Norfolk. United States Shipping Board. Buffeldels. Harrison Line. Norfolk. United States Shipping Board. Galveston. United Fruit Co. New Orleas Spanish Steamship Line. New Orleas Royal Mail Company. Tampico. Ramanico. Ramanico. Santa Company. Sant Theories Government. Sant Theories French Government. Sant Theories Panama Railroad Steamship Line. New York United Fruit Co. New York United Fruit Co. Golombian.
	Vessel.	Caribbean Baladan Baladan W. H. Marston (e) Arabia (d) Uyassas Uyassas Lake Lida Bleetrician Cartazayo Manuel Calvo Chinampa Cartazayo Calvo Chinampa Cartazayo Chinampa Cartazayo Chinampa Cartazayo Chinampa Cartazayo Chinampa Cartazayo Chinampa Cartazayo Chinampa Cartazayo Chinampa Cartazayo Chinampa Cartazayo Chinampa Cartazayo Calvo Chinampa
	Date.	March 21.  March 21.  March 22.  Narch 24.  March 24.  March 24.  March 24.  March 25.  March 25.  March 25.  March 25.  March 25.  March 25.
	From,	Tampico. Port Linon. Livergool and wayports. New York. Hampion Roads. Habuna. New Orleans. Colou. New York and Habana. New York and Kingston. Cartagena.
*ARRIVALS.	Line.	Standard Oil Co.  Royal Mail Co.  Harrison Steamship Line. Panama Railroad Steamship Line. United States Shipping Board. Snanish Steamship Line. United Pruit Co. United Fruit Co. United States Shipping States United Fruit Co. United Fruit Co. United Fruit Co. United Fruit Co. United Fruit Co. United Fruit Co. United Fruit Co. Tonied Fruit Co. United Fruit Co. Panama Railroad Cattle Industry
	Vessel.	Chinampa Vancouver Plectricia Gen. G. W. Goethals, Lake Lida Mannel Calvo Cartago Arabía (d) Arabía (d) Arabía (d) Sarata Santa Leonora Turnalla.
	Date.	March 21. March 22. March 22. March 22. March 22. March 23. March 23. March 24. March 24. March 24. March 24. March 24.

### FORT OF BALBOA.

Panama.	ater than 12 are postmeridian.
Magdaleno Bustillos	Hours are expressed on the 24-hour basis and all bours greater than 12
Puntarenas, Costa Rica.    March 24   Cantabria San Dicgo.	
Puntarenas, Costa Rica.	Other than ships passing through the Canal.
no Bustillos	*Other than ship
Magdalei U.S. Na	f) Tug.
March 22   Cantabria	d) Motor schooner. (e) Schooner.

Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending March 27, 1920.

Name of vessel.  Caribbean	March 21. March 21. March 21. March 22.	March 25 March 25	7,400 301	Tons. 43 590 (†)
Ucayali         Peruvian Line           Chinempa         Standard Oil Co           Vancouver         Roval Mail Steam Packet Co           Bologna         Italian Steamship Line           Ansaldo San Giorgio         III           Arabia         National Navigation Society           Arabia         San Blas Trading Corporation           Newport         Pacific Mail Steamship Co           Electrician         Harrison Line           Manuel Calvo         Spanish Line	March 21. March 21. March 21. March 22.	March 22 March 25 March 25 March 25	7,400	43 590
Ucayali.         Peruvian Line           Chinempa         Standard Oil Co.           Vancouver.         Roval Mail Steam Packet Co.           Bologna.         Italian Steamship Line.           Ansaldo San Giorgio         III.           Arabia.         National Navigation Society.           Arabia.         San Blas Trading Corporation.           Newport.         Pacific Mail Steamship Co.           Electrician         Harrison Line.           Manuel Calvo.         Spanish Line.	March 21. March 21. March 21. March 22.	March 22 March 25 March 25 March 25	7,400 301	590
Chin*mpa. Standard Oil Co. Vancouver. Royal Mail Steam Packet Co. Bologna. Italian Steamship Line.  Ansaldo San Giorgio III. National Navigation Society. Arabia. San Blas Trading Corporation. Newport. Pacific Mail Steamship Co. Electrician Harrison Line. Manuel Calvo. Spanish Line.	March 21 March 21 March 21 March 22	March 25 March 25 March 25	7,400 301	
Vancouver. Roval Mail Steam Packet Co. Bologna. Italian Steamship Line. Ansaldo San Giorgio III. National Navigation Society. Arabia. San Blas Trading Corporation. Newport. Pacific Mail Steamship Co. Flectrician Harrison Line. Manuel Calvo. Spanish Line.	March 21 March 21	March 25 March 25	301	
Bologna.         Italian Steamship Line.           Ansaldo San Giorgio         Natienal Navigation Society.           III.         Natienal Navigation Society.           Arabia.         San Blas Trading Corporation.           Newport.         Pacific Mail Steamship Co.           Electrician.         Harrison Line.           Manuel Calvo.         Spanish Line.	March 22	March 25	000	1,41
III. National Navigation Society. Arabia. San Blas Trading Corporation. Newport. Pacific Mail Steamship Co. Flectrician Harrison Line. Manuel Calyo. Spanish Line.			338	
III. National Navigation Society. Arabia. San Blas Trading Corporation. Newport. Pacific Mail Steamship Co. Flectrician Harrison Line. Manuel Calyo. Spanish Line.				
Newport Pacific Mail Steamship Co Flectrician Harrison Line Manuel Calvo. Spanish Line				(†)
Electrician Harrison Line Manuel Calvo Spanish Line			(*)	10
Manuel Calvo Spanish Line				1,34
			1,150	35
			634	16
			2,471	(†)
Gen. G. W. Goethals.   Panama Railroad Steamship Line			2,863	
Balboa Colombian Maritime Co			1,630	23
Cartago United Fruit Co		March 27	558	5
				7
				56
		3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		3,09
Colon Panama Railroad Steamship Line Caribbean Panama Railroad Cattle Industry		11141CH 20	250	3,00
Urubamba Peruvian Line				
Peru. Pacific Steam Navigation Co	March 25		1,7733	
Acajutla Pacific Steam Navigation Co	March 25		926	
Manavi Pacific Steam Navigation Co		March 26		59
Aysen Chilean Steamship Co	.   March 25	1	2.066	
Ambridge United States Shipping Board	. March 26		7,577	
Jamaica Pacific Steam Navigation Co	. March 27		771	
Larne Royal Mail Steam Packet Co	March 27		266	1
Sachem Pacific Mail Steamship Line			1,924	

^{*} No cargo discharged.

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Ealboa for Week Ending March 27, 1920.

				Care	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Point Adams	Pacific Mail Steamship Co		March 21	Tons.	Tons.
Peru	Pacific Steam Navigation Co Magalaleno Bustillos	March 21 March 22	March 23 March 23	13	
Acajutla Newport	Pacific Steam Navigation Co Pacific Mail Steamship Co Columbia Maritime Co	March 25 March 25 March 25	March 25 March 26 March 26		
Balboa Ansaldo San Giorgio	National Navigation Society	March 25	March 26	13	
Manavi	Pacific Steam Navigation Co Pacific Mail Steamship Co	March 26 March 26 March 26	March 26 March 27	200	
Cordelia	C. T. Bowring & Co	March 26 March 26		125	
Sapelo	United States Navy	March 27			

### Official Circulars.

### Rules of the Road.

THE PANAMA CANAL,
EXECUTIVE OFFICE,
BALBOA HEIGHTS, C. Z., March 23, 1920.
All concerned—All vehicles of whatever character in the service of The Panama Canal and Panama Railroad Company must strictly observe the existing regulations relative to right of way for fire apparatus in the cities of Panama and Colon.

CHESTER HARDING, Governor.

### Promotions on Silver Roll.

THE PANAMA CANAL, EXECUTIVE OFFICE,
BALBOA PEIGHTS, C. Z., March 26, 1920.
To all concerned—In the case of those silver employees who were reemployed immediately after the strike at a lower rate of pay, and whose services have been satisfactory in all respects other than that they participated in the strike, romotions to the next higher rate of pay may be made April 1.

CHESTER HARDING,

Governor.

### Acting Chief Admeasurer.

THE PANAMA CANAL, EXECUTIVE DEPARTMENT BALBOA HEIGHTS, C. Z., March 25, 1920.

All concerned—Effective March 29, 1920, and during the absence of Lientenant M. C. Davis, U. S. Navy, on leave, Mr. Frederick de V. Sill will act as Member of the Board of Admeasurement and Chief Admeasurer at the Port of Balboa; and Mr. Timothy P. O'Shea will act as Engineer Member, Board of Local Inspectors.

CHESTER HARDING, GOVERNOR

[†] No cargo laded.

### Telephone Inquiries at Offices of Captains of the Ports.

THE PANAMA CANAL. EXECUTIVE OFFICE.

BALBOA HEIGHTS, C. Z., March 24, 1920.

To all concerved—Serious interference with the business of the Port Captains' offices (Cristobal and Balboa) is resulting from the number of telephone inquiries made daily by individuals on matters of merely personal interest.

Hereafter, such inquiries should be directed to

Hereatter, such inquiries month be directed to the Information telephone operator (Cristobal or Balboa) and not to the Port Captains' offices. Marine Division dispatchers will keep information telephone operators advised with regard to movements of passenger and mail steamers, and other matters of general interest. They will decline to furnish information direct to individuals in response to inquiries of the character above mentioned; but will, instead, refer the calling party to information telephone operator.

CHESTER HARDING. Governor.

### Quarters Status of Employees Returning from Military or Naval Service.

THE PANAMA CANAL, EXECUTIVE DEPARTMENT. BALBOA HEIGHTS, C. Z., March 25, 1920.

BALBOA HEIGHTS, C. Z., March 25, 1920. CIRCULAR No. 627-26;
Paragraph No. 21 of Circular No. 627-24, is amended to read as follows:

"21. The service of employees who resigned from The Panama Canal or Panama Railroad to enter military or naval service during the European War, and who are reinstated in their positions within 120 days from date of honorable discharge, will be considered continuous for the purpose of applying for quarters; and those employees who occupied family quarters at the time of such resignation will be placed at the head of the list for assignment to quarters of the same grade to which they were entitled. Those reporting for duty after 120 days will be given credit for time while in military or naval service. credit for time while in military or naval service, but will not be given preference over other employees for assignment to quarters.

CHESTER HARDING. Governor.

### Acting Chief Hydrographer.

THE PANAMA CANAL, DEPT. OF OPERATION AND MAINTENANCE, BALBOA HEIGHTS, C. Z., March 11, 1920. To all concerned—Effective this date and until the return from leave of Mr. R. Z. Kirkpatrick, Mr. H. G. Cornthwaite is designated Acting Chief Hydrographer.

JAY J. MORROW, Engineer of Maintenance.

### Tuition in the Schools.

THE PANAMA CANAL, EXECUTIVE DEPARTMENT. DIVISION OF SCHOOLS,

BALBOA HEIGHTS, C. Z., March 29, 1920.

To all concerned—The following regulation regarding the payment of tuition will go into effect at the beginning of the next school year:

"Tuition changes for children whose parents or guardians are alien nonresidents of the Canal Zone are:

Alien nonem- Alien employees. ployees.

For grade school, per month.. \$8,00 \$4.00 For high school, per month... 12.00 8,00

A. R. LANG, Superintendent of Schools,

Approved: C. A. MCILVAINE, Executive Secretary.

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Yokohama, Japan.	6,831	1 : :				22,939
Valparaiso, Chile.	5 710					13,563
Tumaco, Colombia,						1,343
Taleahaano, Chile.	6.047					6,537
Sydney. Australia.	2 900					7,900
Shangb <b>a</b> i, China.	8 914		-	8,419		16,663
San Pedro, Cal.						13,828
San Fran- cisco, Cal.	11 057		6,116		9,764	53,918
Puntarenas, Argentine,						1,061
Pisagua, Ghile,					16,220	16,220
.argel ,ijoM	900.					6,300
Mejilloncs, Chile.		6,878				6,878
Lyttleton, New Zealand.	7 511	4				7,811
Japan.	8 500	,				6,500
From-	New Orleans, La. Newport News, Va. New York N. Y.	Norfolk, Va. Philadelphia, Pa	Port Arthur, Tex. Sabine, Tex.	Savannah, Ga Southampton, England St. Thomas, West Indies	Tampieo, Mexico Weymouth, England	Total

### Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT,

BALBOA HEIGHTS, C. Z., March 27, 1920.

CIRCULAR No. 234:

Effective April 1, 1920, Mr. J. J. Noonan is designated an accountable official of The Panama Canal, vice Mr. Alfred Bryan, and as such will account for the Supply Department storehouse stock at Balboa Heights storehouse.

H. A. A. SMITH, Auditor, The Panama Canal.

Approved: CHESTER HARDING, Governor.

### Information re Sailings of Army Transports.

THE PANAMA CANAL.

EXECUTIVE OFFICE

Balboa Heights, C. Z., March 27, 1920. To all concerned—Canal employees desiring information concerning sailings of Army transports, and reservations thereon should communicate with this office either by letter or by tele-

phone, Balboa 184.

All authorities for transportation are issued and arrangements for reservations made by this office, and it is, therefore, unnecessary for employees to call on or telephone to the Department Transportation Officer, U. S. Army, concerning such matters.

C. A. McIlvaine, Executive Secretary.

### Motor Transportation.

THE PANAMA CANAL, SUPPLY DEPARTMENT

BALBOA HEIGHTS, C. Z., March 25, 1920.

All concerned—Circular issued on December 16, 1919, establishing new motor transportation rates to be charged against Departments and Divisions, which became effective January 1, 1920, is amended by the following:

A deduction of 33 cents per hour may be made for each Ford truck used without a chauffeur, and \$10 per hour for other trucks.

and \$1.01 per hour for other trucks.

R. K. Morris, Chief Quartermaster.

Approved: CHESTER HARDING, Governor.

### Schools.

THE PANAMA CANAL. EXECUTIVE DEPARTMENT,

DIVISION OF SCHOOLS,

BALBOA HEIGHTS, C. Z., March 27, 1920.

To all concerned—All Canal Zone schools closed on account of the influenza will open on Monday March 29. The quarantine period will take the place of the Easter vacation, except Good Friends day, which will be observed as a holiday.

A. R. LANG, Superintendent of Schools.

Approved: C. A. MCILVAINE, Executive Secretary.

### Shipping Commissioner's Sale.

Shipping Commissioner's Sale.

The Shipping Commissioner, 'room 305, Administration Building, Balboa Heights, will accept written bids up to noon Monday, April 19, 1920, for the purchase of portions of the personal effects of Francis R. Trainor, deceased American seaman. The property to be sold is listed below, and bids may be made for the entire lot of the effects or be limited to individual articles. Prospective bidders desiring to examine the effects should apply to the Shipping Commissioner's office on any business day. Bids should be submitted in sealed envelopes, addressed to the

Shipping Commissioner, marked "Bid on effects of Francis R. Trainor, deceased." The right is reserved to reject any or all bids, and no advance deposit of money is required:

1 suitcase, black imita- 1 sweater tion leather 2 pairs high black shoes 1 pair high canvas shoes 1 pair slippers 1 package of miscellane-ous small articles 1 hand bag, leather 6 pairs cotton socks

2 pair wool socks 1 pair garters 1 overcoat overcoat 2 collars, soft two-piece bathing suit 4 collars, linen

3 neckties two-piece suit 1 clothes cover vest 1 belt, leather 1 hat, felt

4 shirts, negligee
1 shirt, khaki
1 shirt, heavy
2 brushes, shoe
1 can of cocoa
1 can of shoe polish
2 spools darning cotton 1 cap 3 undershirts 1 pair of drawers 2 union suits 2 pairs work trousers

whisk broom 6 handkerchiefs

1 fountain pen filler C. H. CALHOUN, Shipping Commissioner.

### Sale of Confiscated Merchandise.

The Division of Civil Affairs, room 305, Administration Building, Balboa Heights, will accept written bids up to noon, Thursday, April 15, 1920, for the purchase of the following articles 15. 1920, for the purchase of the following articles which were seized and confiscated under authority of Section 2 of Title VII of the Act of Congress approved June 15, 1917. known as the "Espionage Act." Persons desiring to examine the property should apply to the Division of Civil Affairs on any business day. Bids may be made for the entire lot. or be limited to individual articles, and should be submitted in sealed envelopes addressed to the above-mentioned division marked "Bid on Confiscated Merchandise." The right is reserved to reject any or all hids. The right is reserved to reject any or all bids, and no advance deposit of money is required.

22 pairs ladies' black silk stockings, assorted

sizes

40 pairs ladies' white silk stockings, assorted

sizes 40 pairs ladies' brown silk stockings, assorted

6 pairs men's silk socks (2 pairs black, 2 pairs

6 pairs men's silk socks (2 pairs black, 2 pairs blue, and 2 pairs gray).
1 ladies' cotton crepe nightgown.
1 pair men's sock holders.
2 men's shirts, soft, size 15½.
3 men's silk shirts (2 blue and white stripe and one green and white stripe).
4 boxes "Pompeia" face powder.
4 bottles "Pompeia" lotion.
2 pieces pongee silk, tan color (one piece about 15 yards and one piece about 7 yards, both pieces single width).

single width).

I suit cotton BVD men's underwear.

1 silk doily.
1 men's white silk tie.
2 bottles Newbro's "Herpicide."
12 tins "Eclat" talc powder.
1 tin Mennen's talcum powder.

pair men's khaki riding trousers. men's khaki shirts.

5 Panama hats.
1 tube "Pebeco" tooth paste.

1 Prophylactic tooth brush.

### Additions to Commissary Stock.

Dry Goods Section

Dry Goods Section.	
Dress goods:	
Gingham, 27", yd	
Linen, for dress, 35", yd	.96
Linen, for dress, 42", yd	1.15
Handkerchiefs, linen cambric, H. S., 19"	
ea.(	.41
Hats, straw, men's, Cuban, ea	1.50
Hats, straw, men's, Cuban, ea	2.20
Hats, straw, men's, Cuban, ea	2.25
Hats, straw, men's, Cuban, ea	2.35
Hats, straw, men's, Cuban, ea	2.45
Hats, straw, men's, Cuban, ea	2.55
Hats, straw, men's, Cuban, ea	2.80

### THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address
The Panama Canal Record, Balboa Heights Canal Zone, or
The Panama Canal, Washington, D. C.
Entered as second-class matter, February 6, 1918, at the Post Office
at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., April 7, 1920.

No. 34.

### Work on the "Olockson."

In carrying out the plan for salvaging the steamship *Olockson*, towed in from sea and sunk in the outer harbor at Balboa to extinguish fire in her cargo of gasoline, a salvaging party went to the ship on April 6 to work on her till she is afloat. The first move is to replace her cargo winches, which have been overhauled at Balboa shops, and rig temporary cargo booms in place of those which were burned, so that her own gear can be used for hoisting the cargo, steam being supplied from a derrick barge alongside; during this time wrecking pumps will be installed, with steam supply from a derrick barge. Some of the cargo is accessible now, at low tide, and the plan in handling the cargo will be to keep the level of water just below the top of the cargo, so as to allow no spaces for the accumulation of gas pockets and loose oil. This plan is being followed now in discharging the *Marne* at Cristobal.

The salvaging party at the *Olockson* consists of 12 gold men, housed on derrick barge *No. 161*, and 30 silver men, on barge *No. 91*.

Cargo of the "Marne" Being Discharged in Harbor.

The steamship Marne, which sank a second time in Cristobal harbor on March 6 with fire in her cargo of gasoline was floated again last week and moved into the position selected for discharging her. This is near the outer end of the terminal mole. As sunk the second time, about 100 feet of her bow protruded at an angle into the channel; when she was raised she was towed back clear of the Canal. The plan is to remove the benzine and oil and flush the holds with water and steam to clear out loose oil and fumes, and then to take the vessel to a dock for the discharge of her general cargo. Cases are leaking, oil and benzine are loose all through the ship, and in some places the fumes are so strong that the men can work only a few minutes without coming up for air. Under such conditions extreme care is necessary and discharging is necessarily slow.

A representative of the United States Shipping Board, to which the *Marne* belongs, will arrive on the Isthmus shortly to make a survey of her and determine the procedure as to repairing her or otherwise

disposing of her.

Record Lockage.

On the afternoon of March 25, 13 northbound ships which had been delayed on account of the closing of the cut for a few days made the transit of the Canal. These ships were locked down at Gatun in 5 hours and 57 minutes. Both chambers were used, and with one exception tandem lockages were made, all 16 locomotives being in use. Eleven of the ships were commercial and of the other two one was a United States Navy supply ship and the other a British tug.

Table of summary of record lockages is printed at top of page 494.

# MOVEMENTS OF OCEAN VESSELS. Week ending at midnight April 3, 1920.

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	San Francisco.					Puntarenas		_				Tocopilla	Wellington
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Duetsche Dampfschieffahrts United States Shipping Board Pacific Steam Navigation Co Pacific Metals Corporation	United States Shipping Board. Fred Olsen United States Shipping Board	Societe General de Transp. W. Wilhelmsen	Jose R. Fernandez Yokohama Dock Co	Commonwealth & Dominion Line	United States Navy.	Rolph Navigation Co.	United States Navy.	Pacific Steam Navigation Co	F. & W. Bitson	United States Shipping Board	Pacific Steam Navigation Co	United States Shipping Board	Federal Steam Navigation Co
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Osiris Aberdeen Duendes Laura C. Hall	Borgland (9)	Mont Cervin.	Cantabria (h)	Port Stephens	S. C. No. 285.	James Rolph	Sciota (j)	Cauca	Houston	[da	Salvador	Lake Festina	Northumber- land

(g) Motor ship. (h) Sailor. (i) Light cruser. (j) Tug. (k) For orders. (l) Cocoa, ivory nuts, bides, rubber, etc. (j) Returned from sea for repairs. PORT OF CRISTOBAL.

		*ARRIVALS.				*DEPARTURES.	
Date.	Vessel.	Line.	From.	Date.	Vessel.	Line.	For.
March 28. March 29. March 29. March 29. March 29. March 30. March 31. March 31. March 31. March 31. March 31. Annil 11.	C. A. Canfield. Yarmouth. Achilles. Darien (m) Bonham. Ninan. Arabia (n). Heredia. Abangarez. Garfillo. Metapan. Lake Akkra. Panama. Caribbean.	Pan-American Pet. & Trans. Co. Tampico.  Black Star Line. Panama Railroad Steanship Line. Panama Railroad Steanship Line. United States Shipping Board. Cartagena Railroad Steanship Line. Cartagena Railroad Steanship Line. Cartagena Railroad Steanship Line. Cartagena Railroad Steanship Line. Cartagena Railroad Steanship Line. Cartagena Railroad Steanship Line. New York and Habana. April 1. New York and Habana. April 1. New York and Hingston. New Orleans and Habana. April 1. New York and Hingston. New Orleans Kingston. April 2. Panama Railroad Steanship Line. Panama Railroad Steanship Line. Panama Railroad Steanship Line. Panama Railroad Steanship Line. Panama Railroad Steanship Line. Panama Railroad Steanship Line. Panama Railroad Steanship Line. Panama Railroad Steanship Line. Panama Railroad Cattle Industry. Paring Panama Railroad Cattle Industry. Paring Panama Railroad Cattle Industry. Paring Panama Railroad Cattle Industry. Paring Panama Railroad Cattle Industry. Paring Panama Railroad Cattle Industry.	Tampico.  Now York and way ports.  Norfolk.  Cartagena.  Liverpool and way ports.  Loon.  New York and Habana.  New York and Habana.  New York and Kingston.  New Ordens.  New Ordens.  New York and Kingston.  New York and Kingston.  New York and Kingston.  New York and Habana.  New York and Habana.  New York and Habana.	March 28.  March 29.  March 29.  March 29.  March 20.  March 30.  April 1  April 1  April 2  April 2  April 2	March 28. Caribbean.  March 29. Slimmek (C-42).  March 29. Gen. G. W. Goetbals.  March 29. Santa Leonora.  March 30. C. A. Canfield.  March 30. Arabia (n).  April I. Lake Akkra.  April Carribo.  April Heredia.  April Heredia.  April 2. Metapan.  April 2. Metapan.	Panama Railroad Cattle Industry.  42) French Government.  a. United States Army.  Inited States Shipping Board.  W. V. N. Powellson.  United States Shipping Board.  W. V. N. Powellson.  United States Shipping Board.  United Fruit Co.  Rew Orleans and Bocas.  New Orleans & wayports.  Nordolf.	Cartagena. San Juan, Porto Rico. New York. New Orles. Tampico. Tampico. Olonnian ports. Glolomian ports. Olombian ports. New Orleans and Bocas. New Orleans and Bocas. Now Orleans of wayports. Norfolk.
(-) D	(a) Denne (a) Matematica					To Postalianop)	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

(m) Barge. (n) Motorship.

### Record Lockage.—Continued from page 491.

Following is a summary of the lockages:

Name.	Length.	Arrived.	Entered.	Cleared.	Chamber and character of lockage.
St. AthansBeaver	135.0 380.0	P. M. 4.57 5.17	P. M. 5.06 5.22	P. M. 6.16 6.19	East—Tandem. East—Tandem.
Sorata	390.0	5.59	6.07	7.22	West—Tandem.
Otterstadt.	314.0	6.11	6.18	7.26	West—Tandem.
Point Adams.	289.0	6.11	6.31	7.47	East—Tandem.
Acajutla.	215.0	6.29	6.45	7.50	East—Tandem.
Port Macquarie	437.0	6.46	7.41	8.35	West—Single.
Aysen	379.0	6.51	8.07	9.21	East—Tandem.
Lake Berdan	256.0	7.49	8.14	9.23	East—Tandem.
Peru	350.0	6.55	9.01	10.05	West—Tandem.
Cawker	267.0	8.15	9.07	10.07	West—Tandem.
Urubamba.	381.0	8.19	9.41	10.49	East—Tandem. East—Tandem.
Coutelene.	253.0	9.16	9.49	10.54	

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending April 3, 1920.

				Carg	0
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Caribbean	Process D. H. J. C. and J. L. a.		16 1 00	Tons.	Tons.
Gen. G. W. Goethals.	Panama Railroad Cattle Industry. Panama Railroad Steamship Line		March 28		7
C. A. Canfield	Pan-Amer. Pet. & Trans. Co	March 28	March 29 March 30		4,431
Laura C. Hall.	Pacific Metals Corporation				(*)
Ninian	Harrison Steamship Line	March 20		49 632	
Aysen	Chilean Steamship Line	27441 CH 20	March 30	002	986
Peru	Pacific Steam Navigation Co		March 31		1,220
Acajutla	Pacific Steam Navigation Co		March 31		825
Uruhamba	Peruvian Steamship Line		March 31		730
Achilles	Panama Railroad Steamship Line	March 29	April 2	12,0131	(*)
Darien		March 29	April 2	7,316	(*)
Larne			April 1		1,126
Orcus		March 30			237
Heredia					115
Abangarez		March 31			125
Panama	United Fruit Co	March 31		4	513
Point Judith	Panama Railroad Steamship Line.				72
Caribbean	Pacific Mail Steamship Line Panama Railroad Cattle Industry.		April 2		12
Allianca	Panama Railroad Steamship Line.				
Lake Charlottesville	United States Shipping Board				
Cauca	Pacific Steam Navigation Co				
Perou	French Line	April 2			
Sachem	Pacific Mail Steamship Line		April 3		2,325
Parismina	United Fruit Co	April 3	1	350	
Salvador	Pacific Steam Navigation Co	April 3		1,034	

^{*} No cargo laded.

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending April 3, 1920.

				Car	go
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
				Tons.	Tons.
Laura C. Hall	Pacific Metals Corporation	March 28	March 29	19	
Acajutla	Pacific Steam Navigation Co	March 31	March 31		13
Annette Rolph	Rolph Navigation Co	April 1	April 2		
Orco	Pacific Steam Navigation Co	April 1	April 1	18	
Point Judith	Pacific Mail Steamship Co	April 2	April 2		
Cauca	Pacific Steam Navigation Co	April 1	April 2		
Salvador	Pacific Steam Navigation Co	April 2	April 3		
Chile	Pacific Steam Navigation Co	April 3	April 4	20	
Sachem	Pacific Mail Steamship Co	April 3	April 3		3

### Executive Order.—Carrying and Keeping of Arms.

By virtue of the authority vested in me by Section 4 of the Act of Congress authorizing the President to make rules and regulations relative to police powers in the Canal Zone, approved August 21, 1916, I hereby establish the following order for the Canal Zone:

Section 1. It shall be unlawful for anyone to carry on or about his person any firearm or any dirk, dagger or other knife, manufactured or sold for the purpose of offense or defense, or any slung shot, sword-cane, or any knuckles made of metal

or other hard substance.

Sec. 2. The preceding section shall not apply to a person engaged in the military or naval service of the United States, or as a peace officer or officer authorized to execute judicial process of the United States or the Canal Zone, or in carrying mail or in the collection or custody of funds of the United States or the Canal Zone. nor to a member of a gun or pistol club organized for the promotion of target practice. a certified copy of the constitution and by-laws of which have been approved by the Executive Secretary of The Panama Canal and filed with the Chief of the Police and Fire Division, when such member is going to or from a target range or is engaged in practice at the target range. For the purposes of this order, a certificate of membership in the gun or pistol club shall be issued by the organization and approved by the Chief of the Police and Fire Division, which shall entitle the holder to carry firearms as is provided in this section.

Neither shall the preceding section apply to any person authorized to have or carry arms by permit granted under the terms of this order.

SEC. 3. The Executive Secretary of The Panama Canal may authorize the granting of permits to have and carry arms, as follows:

1. To hunt upon the public lands of the Canal Zone or upon lands occupied by

private persons, when authorized by the latter.

2. To have arms in residences, offices, business places, and plantations, and to watchmen or overseers of plantations, factories, warehouses, docks, or piers. Applications for such permits shall be made to the Executive Secretary of The Panama Canal, and shall contain the full name, residence and occupation of the applicant: and if the applicant is a minor it shall not be granted without the consent of his parent or guardian; but no permit shall be granted to a minor under 15 years of age

The Executive Secretary shall satisfy himself by due inquiry that the applicant is a proper person to have a permit to keep and carry arms; and he may grant or

deny the application, as to him may seem proper.

Sec. 4. When an application is granted by the Executive Secretary for a permit to hunt, he shall endorse his approval thereon and file the application, and he shall cause a permit to be issued to the applicant upon his paying a fee of one dollar.

Hunting permits issued by virtue of this order will allow the holder thereof to have, carry, and use firearms in the area or areas prescribed by the Governor of The Panama Canal, and on the conditions imposed by him under such general or special rules and regulations as he may issue from time to time. And the Governor is hereby empowered to designate the area or areas of the Canal Zone in which hunting is permitted, and the class of arms that may be used in hunting in such areas; and no hunting shall be allowed outside of the areas so designated by him. And the Governor of The Panama Canal may, in such general or special rules and regulations, impose such other conditions in respect to hunting as he may deem necessary in the interests

of public order, and to prevent injury to persons or property.

A permit granted under this section shall run for the fiscal year in which it is issued, and it may be revoked at any time for cause by the Executive Secretary of

The Panama Canal.

SEC. 5. Permits heretofore issued by authority of law, to have and use firearms, shall not be affected by this order, but such permits shall continue in force until the

expiration of the period for which they were issued.

Sec. 6. Any one not authorized by this order, who carries on or about his person any of the prohibited arms mentioned in Section 1 of this order, or who hunts or engages in hunting without first obtaining the permit provided for in this order, or who after obtaining such permit engages in hunting in violation of the provisions of this order or any rule or regulation established by the Governor hereunder, shall be punished by a fine not exceeding twenty-five dollars or by imprisonment in jail not to exceed thirty days, or by both such fine and imprisonment, in the court's discretion.

In addition to the punishment herein prescribed for a violation of this order, the courts shall adjudge the seizure and confiscation of the arms unlawfully had, used or carried by the offending party, and the same shall be disposed of in such manner

as the Executive Secretary of The Panama Canal shall determine.

SEC. 7. Penalties for the infringement of this order shall be in addition to such punishment as may be imposed upon the offending person for any other offense that he may have committed in connection with the carrying or using of arms in violation of this order.

SEC. 8. The Executive Order of November 7, 1913, and all other laws, orders, and regulations or parts thereof in conflict with this order are hereby repealed.

SEC. 9. This Order shall take effect thirty days from and after this date.

WOODROW WILSON

THE WHITE HOUSE,

6 March, 1920.

[No. 3243.]

### Prices of Miscellaneous Supplies.

The following are prices to individuals and companies, including the 25 per cent surcharge, effective April 1, 1920:

Commodity.	Unit.	Price.
Prass. bar.	Lb.	\$0.
rass, sheet	Lb.	
ronze, Tobin	Lb.	
Cement, at Panama: Departments of United States Government (includes surcharge and bags)	Bag	1.19
Credit for empty bags returned	Bag	.0
Credit for empty bags returned. Individuals and companies (includes surcharge and bags).	Bag	1.7
Credit for empty bags returned	Bag	
Coment, at Colon: Departments of United States Government (includes surcharge and bags)	Bag	1 04
Departments of United States Government (includes surcharge and bags)	Bag	.0
Individuals and companies (includes surcharge and bags)	Bag	1.
Credit for empty bags returned.	Bag	
haranal	Cwt.	
narcia. aspline, in drums (motor grade).	Lb. Gal.	.4
asoline, in drums (motor grade)ad, sheet	Lb.	. 4
end, sneet	Lb.	
and pig.  and pig.  mber, ceiling, siding, and flooring, 1" by 6".  mber, flooring. 1" by 3" and 1" by 4".	M ft. B. M.	112
unber, flooring, 1" by 3" and 1" by 4"	M ft. B. M.	140
imber, vellow pine of Dr (except celling)	M ft. B. M.	90
etal, yellow uts, iron, machine, bexagonal	Lb.	.3
its, iron. machine, nexagonarts, iron. machine, square	Lb.	
als, common, wire	Lb.	
sile gelvenized	Lb.	
kum. Navy. spun.	Lb.	
akum, Navy, unspun	Lb.	
il, fuel. at Balboa and Cristobal—in bulk: United States Army and Navy, and vessels operated by same	42-gal. bbl.	1
Commercial vessels and individuals and companies	42-gal. bbl.	î
Individuals and companies from tank No. 116, Balboa	42-gal. bbl.	1
il, fuel, at Balboa and Cristobal—in drums and barrels:	40 mal h.h.l	1
United States Army and Navy and vessels operated by same.  Commercial vessels and individuals and companies.	42-gal. bbl. 42-gal. bbl.	1
la grooves and lubricante	12 8011 0011	Î
Oil air compressor cylinder	Gal.	.6
Oil ammonia cylinder	Gal.	
Oil, burning	Gal. Gal.	1
Oil, cylinder, dark marine. Oil, cylinder, dark marine.	Gal.	i
Oil, cylinder, ice machine, steam	Gal.	1
Oil anging dynamo	Gal.	
Oil or ging—in true	Gal.	
Oil engine—in barrels	Gal.	
Oil, gas engine, extra heavy—in drums. Oil, gas engine, heavy—in barrels.	Gal.	
Oil, gas engine, heavy—in barrels.	Gal.	
Oil gas engine, medium—in drums	Gal.	
Oil kerosene—in drums.	Gal.	
(ii), kerosene—in tins	Gal.	2
Oil, linseed, hoiled Oil, linseed, raw	Gal.	2
Oil, locomotive engine.	Gal.	_
Oil lard	Gal.	2 3
Ohl marine engine	Gal.	1
Oil, marine engine	Gal.	
Oil, marine engine. Oil, marine engine.	Gal.	
Oil, "Mineral Seal".	Gal.	
Oil, nonliquid	Lb.	
Oil stationary engine	Gal.	
Oil, sperm	Gal.	2 8

Commodity.	Unit.	Price.
is, greases, and lubricants—continued.		
Oil, signal	Gal.	\$1.37
Oil, valve	Gal.	.5
Oil car		22
ax. lamp	Lb.	2
rease, black, gcar.	1.b.	.07
ease, yellow, cup, No. 3	1.b.	12
rease, yellow, cup, No. 5.	Lb.	1
case, rnd, special	Lb.	.22
rease, tunnel bearing	Lb.	1 .22
		22
ıllow		2.6
rpentine	. trai.	
rpentine substitute		-4
aseline		.1
sint, lead, white, dry		.12
aint, lead, white, in oil	. Lb.	.1
int, zine, white, dry	. Lb.	2:
unt, zine, white, in oil	. Lb.	
int. zinc, white leaded, 35 per cent in oil.	. Lb.	
vets		-1 .0
ope, Manila, ?" diameter		
ope, Manila, 3' diameter		1.3
ope, Manila, 3" diameter		2
ope, Manila, & diameter		4
Joe, Manila, g Olameter	. Čft.	4.
ope, Manila, ¾'' diameter. ope, Manila, ¾'' diameter.	. Cft.	6.
ope, Manua 🙀 diameter	Cft.	
ope, Manila, I'' diameter		7.
ope, Manila, 1 ?" diameter		11.
ope, Manila, 1½" diameter	. Cft.	16.
ope, Manila. 13" diameter		25
ope, Manila, 2" diameter		30.
ope, Manila, 2 ½" di umeter		47.
ope. Manila, 3" diameter	. Cft.	77.
ope. Manila, 3½" diameter	. Cft.	102.
ecl. bar		
eel, spring		i
eel, cold rolled, round.	Lb.	
ed, sheet		
eel, structural (angles, beams, etc.)		
in, block		
in, Banca		
in, sheet		.2
ashers, cut		
aste, colored		
aste, white.		
nc, boiler plate, 5" by 6" by 12".		

### Community House for Soldiers and Sailors.

The National Catholic War Council has begun the erection of a community house for soldiers and sailors of the United States, on Balboa road, diagonally opposite the present location of the Army and Navy Y. M. C. A. in the old Balboa restaurant. The building will be of concrete, two stories in height, with a length of 100 feet and

a depth of 57 feet.

The first floor will contain a lobby, billiard room, reading and writing room, and classrooms, in addition to the office and quarters for the three women who are to have charge of the house. The second floor will have a dance hall 84 feet by 31 feet, with balconies front and rear. In front of the building will be a portico, 11 feet wide by 68 feet long, with 8 circular columns 2 feet in diameter and 20 feet high, extending to the roof. A broad flight of steps extending across the front will lead from the ground level to the portico.

### April Weather Probabilities.

The following weather conditions may be expected at the Canal entrances during the month of April, 1920. These predictions are based on the weather records at Cristobal and Balboa Heights for the last 12 and 14 years, respectively:

Winds—April marks the end of the dry season and some change toward rainy season conditions may be expected the latter part of the month. There will be a general decrease in wind movement. At the Atlantic entrance northerly winds will prevail with an average hourly velocity of about 13 miles. On the Pacific Coast

the prevailing direction will be from the northwest with an average hourly velocity of about 9 miles. A maximum velocity greater than 30 or 35 miles an hour is not

likely to occur on either coast.

Rain—Light to moderate showers may be expected occasionally at both Canal The monthly average rainfall at Cristobal is 4.35 inches, and at Balboa Heights, 3.09 inches. About 16 days with rain (0.01 inch or more) may be expected on the Atlantic Coast and 9 on the Pacific Coast.

Fogs-No fogs are likely to occur at either Canal entrance. Occasional fogs may be expected over the Gaillard Cut section of the Canal, but these will probably be

light and be dissipated before 8.30 a. m.

Temperature—The monthly mean temperature will average about 81 degrees Fahrenheit on both coasts, but the daily range will be much greater on the Pacific side. On the Atlantic side, 90 degrees Fahrenheit is the highest and 72 degrees Fahrenheit the lowest that may be expected, but a maximum of 97 degrees and a minimum of 64 degrees may possibly occur on the Pacific Coast.

Relative humidity—The relative humidity will average about 80 per cent on the Atlantic side and about 78 per cent on the Pacific side, but the daily range is much

greater on the Pacific side.

Storms—No general storms are likely, except an occasional "Norther" may occur during the month. The "Norther" of April 3-6, 1915, was the most severe storm since the American occupation. A maximum wind velocity of 46 miles an hour from the north was recorded, the highest wind velocity on record for the Atlantic side. However, this was a storm of unusual intensity. Intensified northeast trades frequently cause rough seas and a heavy swell outside the breakwater at Colon. Smooth and moderate seas may be expected on the Pacific side.

Tides—Tidal fluctuations on the Atlantic side are too small to affect navigation

Balboa tide predictions for April are given below:

Da	y of-	Time	and He	ight of	High	Da	y of-	Time	and lle	ight of	High	Day	of-	Time	and Hei	ght of High
W.	Mo.		d Low			W.	Mo.		id Low			W.	Mo.			Water.
Th	I	2:05 14.1	8:16 0.9	2:31	8:47 0.5	s	11	3.04	9:05 11.7	3:33	9:20 11.4	W	21	5:20 16.0	11:33 -0.6	5:38 11:57 16.6 -1.3
F	2	2:53 14.6	$9:05 \\ 0.4$	3:15 15.2	9:32 -0.1	М	12		10:12 11.4		10:34	Th	22	6:11 15.8	12:19 -0.1	6:29
S	3	3:37 14.9	9:47 0.0		10:12 -0.5	Tu	13		11:24 11.6		11:48 11.4	F	23	0:44	7:03 15.5	1:12 7:27 0.7 15.4
s	4	4:18 15.0	10:27 -0.1		10:50 -0.5	W	14		12:24 12.3			S	24	1:39 0.2	7:58 14.9	2:12 8:18 1.6 14.8
M	5	4:58 14.8	11:04 0.2		11:27 -0.2	Th	15	0:48 12.1	7:02 3.0	1:13 13.2	7:3? 2.6	s	25	2:41 1.2	8:57 $14.2$	3:19 9:23 2.2 13.7
Tu	6	5:37 14.5	11:38 0.7	5:50 14.7		F	16	1.35		1:59 14.3	8 - 1 S 1 . 4	М	26	3:47 1.8	10:08 13.8	4:28 10:37 2.6 13.2
W	7	0:04		12:16	6:27 14.2	S	17	2:21 13.9	8:39 1.2	2:38 15.2	9:04	Tu	27	4:53 2.2	11:22 13.2	5:34 11:52 2.6 13.2
Th	8	0:41		12:56		s	18	?:04 14.8		3:21 16.0		W	28	5:58 2.3	12:27 14.0	6:38
F	9	1:21		1:41		M	19		10:07 -0.4		10:29 -1.3	Th	29	0:55 13.6	6:58 2.2	1:21 7:35 14.4 1.8
S	10	2:09	8:16 12.2	2:33	8:23 12.0	Tu	20	4:32 15.9	10:49 -0.7	4:50 16.7	11:12 -1.5	F	30	1:47	7:51 1.9	2:08 8:25 14.8 1.2

The tides are placed in the order of their occurrence: the *times* of high and low tides are shown on the upper lines. The figures in boldfaced type are hours and elevations between noon and midnight; ante meridian figures are given in the ordinary lightfaced type. The time is Cosmopolitan Standard for the meridian 75° W.

The descriptions of the most are signed as a constant of the most are signed.

The devations of the water are shown on the second line for each day; a comparison of consecutive heights will indicate whether it is high or low water. Heights are reckoned from mean low water springs, which is 8.3 below mean sea level and is the datum of soundings on the Coast and Geodetic Survey charts for this region. The depth of water may accordingly be estimated by adding the tabular height of the tide to the soundings, unless a minus (-) sign is before the height, in which case it is to be subtracted. The annual inequality or variation in the mean sea level is included in the predictions.

### Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."
The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Board of Civil Service Examiners. Balboa Heights (telephone 286):

Local and assistant inspector of boilers (male and female); \$2,100 to \$2,950 a year; No. 161; April 7 and 8, May 5 and 6, June 9 and 10, 1920; form 1087; age, 25 years but not 55 years.

Local and assistant inspector of hulls (male and female); \$2,100 to \$2,950 a year; No. 161; April 7 and 8, May 5 and 6, June 9 and 10, 1920; form 1087; age, 25 years but not 55 years.

Dairyman (male and female); \$840 to \$900 a year; No. 200; April 27, 1920; form 1800; age, 21 years and over.*

Assistant in white-pine blister eradication, No. 241; assistant entomological inspector, No. 279; chemical laboratorian chemist's aid, No. 516-amended; shop apprentice, No. 653; receipt of applications will cease on March 30, 1920.

Steamfitter's helper (male and female); \$3.20 a day; No. 196; April 27, 1920; form 1800; age,

18 years and over.*

Mechanician, qualified as instrument maker (male and female); \$900 to \$1,800 a year; No. 1161amended; forms 304 and 2029; age, 20 years and over.†

Junior aid (male and female); \$720 to \$840 a year; No. 562-amended; form 1312; age, within

reasonable age limits.

Laboratory apprentice (male and female); \$540 to \$660 a year; No. 562-amended; form 1312; age, within reasonable age limits.†
Mechanical draftsman. Ordnance Department, War Department (male and female); grade 1, \$800 to \$1.400 a year; grade 2, \$1,400 to \$1,800 a year; grade 3, \$1,800 to \$2,500 a year; No. 65-amended; form 1312; age, 18 years and over.†
Traveling auditor (male and female); \$2,500 to \$4,500 a year; No. 1272, (see 1212)

Traveling auditor (male and female); \$2,500 to \$4,500 a year; No. 177; form 1312; age, within reasonable age limits.† Receipt of applications will cease July 1, 1920.

Resident auditor (male and female); \$2,500 to \$4,500 a year; No. 177; form 1312; age, within reasonable age limits.† Receipt of applications will cease July 1, 1920.

Salesman (male and female); \$2,200 a year; No. 192; April 20; form 1312; age, 21 years but not 45 years.*

Assistant in package standardization (male and female); \$1,800 to \$2,760 a year; No. 204; April

, 1920; form 2118; age, 22 years and over.* Apprentice (male and female); \$600 to \$700 a year, and \$2 a day; No. 312-amended; form 1312; 16 years and over. †

age, 10 years and over. The Expert. Stenographer and typist (male and female); \$1,800 to \$2,200 a year; No. 206; April 27, 1920; form 304; age, 18 years and over.

Insurance claims examiner (male and female); \$1.800 to \$2,500 a year; No. 201; April 28, 1920; form 1312; age, 21 years and over.

Investigator in office management (male and female); grade \$1,400 to \$2,200 a year; grade 2. \$2,200 to \$3,000 a year; grade 3, \$3,000 to \$3,800 a year; No. 195; April 27, 1920; form 2118; age, within responsible age limits.

within reasonable age limits.*

within reasonable age limits.*

Medical interne, Saint Elizabeth's Hospital (male and female); \$1,200 a year; No. 191; July 1, 1920; form 1312; age, 20 years and over.*

Administrative assistant chief clerk or registrar (male and female); \$1,200 to \$1,560 a year; No. 23-amended; May 5, 1920; form 1312; age, 25 years but not 45 years.

Administrative assistant, property officer (male and female); \$1,200 to \$1,560 a year; No. 23-amended; May 5, 1920; form 1312; age, 25 years but not 45 years.

Laboratory assistant; No. 2-amendment; April 28-29; June 9-10; and July 21-22, 1920; \$6.40 instead of \$6 a day as stated in the original announcement of this examination.

Expert designer; No. 168-amendment; salary has been increased from \$4,200 to \$4,500 a year. Salesman (machine tools); appraiser (machine tools); grade 1, \$1,800 to \$2,400 a year; grade 2. \$2,400 to \$3,500 a year; grade 3, \$3,500 to \$4,500 a year; No. 185-amendment; April 20, 1920.*

The United States Civil Service Commission announces that for the position of salesman (machine tools), Ordnance Department at Large, experience in the selling or purchasing of machinery, machine tools or any other class of material of a similar nature, will be accepted in lieu of the experience as salesman required by the original announcement, for all grades.*

tools or any other class of material of a similar nature, will be accepted in field of the experience as safe man required by the original announcement, for all grades.*

Physician (male and female); No. 1957-amended (supplemental). Salaries stated in original announcement, No. 1957-amended with \$20 increase granted by Congress if services are satisfactory. Computer—Ordnance (male and female); No. 186; \$7.20 to \$12 a day; No. 186; April 28, 1920; form 1312; grade 1, 21 years to 30 years preferred; grade 2, 21 years to 35 years preferred.

Laboratory assistant (male and female); \$5.20 to \$6 a day; No. 2-amended; April 28-29; June 9-10; and July 21-22, 1920; form 1312; age, 20 to 35 years.

Mechanician and laboratory assistant (male and female); \$5.25 a day; No. 98-amended; April 28-29 (200); form 1312; age 18 years but not 40 years.

28-29, 1920; form 1312; age, 18 years but not 40 years.

Junior mechanical engineer (male and female); \$1,800 to \$2,000 a year; No. 207; April 27, 1920;

Junior mechanical engineer (male and female); \$1,800 to \$2,000 a year; \$0. 207. April 27, 1920, form 1312; age, within reasonable age limits.*

Automatic 3-addressograph feeder (male and female); \$1,100 to \$1,200 a year; April 7, May 19, and July 7, 1920; No. 184; form 304; age, 18 years and over.

Automatic 3-A addressograph operator (male and female); grade 1, \$1,200 to \$1,500 a year; grade 2, \$1,500 to \$1,800 a year; No. 184; form 304; age, 18 years and over.

Electric draftsman (male and female); grade 1, \$1,200 to \$1,500 a year; grade 2, \$1,500 to \$1,800 a year; grade 3, \$1,800 to \$2,400 a year; No. 183; July 1, 1920; form 1312; age, 18 years and over.*

Posting machine operator (male and female); \$1,100 to \$1,320 a year; No. 182; April 7, May 19, and July 7, 1920; form 304; age, 18 years and over.

Posting machine operator (male and female); \$1,100 to \$1,320 a year; No. 182; April 7, May 19, and July 7, 1920; form 304; age, 18 years and over.

Posting machine mechanic (male and female); \$1,400 to \$1,800 a year; No. 182; April 7, May 19, and July 7, 1920; form 304; age, 18 years and over.

Posting machine expert (male and female); \$1,400 to \$1,800 a year; No. 182; April 7, May 19, and July 7, 1920; form 304; age, 18 years and over.

Scientific assistant (male and female): \$1,320 to \$1,860 a year; No. 213; May 5 and 6, 1920;

form 1312; age, 20 years and over.

Teachers (male and female); \$1,000 to \$1,500 a year; No. 31-amended; form B. A. I. 2; age. females, 25 years but not 40 years; males, 21 years but not 40 years.

Primary specialists (male and female); \$1,500 to \$2,000 a year; No. 31-amended; form B. A. I. 2; age, females 25 years but not 45 years; males, 21 years but not 40 years.†

Model teachers for primary grades (male and female); \$1,200 to \$1,500 a year; No. 31-amended; form B. A. I. 2; age, males and females, 21 years but not 40 years.†

Animal husbandman (male and female); \$1,800 to \$2,500 a year; No. 193; April 27, 1920; form 2118; age, 21 years but not 45 years.*

age, 21 years but not 45 years.* Metal-working pressman (male and female); \$3,75 a day plus 15 per cent; No. 217; April 27, 1920;

Age, 20 years and over.*

Proof director, Ordnance Department at Large (male and female); \$2,000 to \$3,000 a year; No. 209; April 27, 1920; age, 21 years; form 1312.*

Apprentice plate cleaner (male and female); \$600 to start; April 28, June 9, and July 21, 1920; No. 188; form 304; age, 16 years but not 18 years.

Apprentice transferrer (male and female); \$600 to start; April 28, June 9, and July 21, 1920; No. 188; form 304; age, 16 years but not 18 years.

188; form 304; age, 16 years but not 18 years.

Apprentice picture engraver (male and female); \$600 to start; April 28, June 9, and July 21, 1920; No. 188; form 304; age, 16 years but not 18 years.

Apprentice letter engraver (male and female); \$600 to start; April 28, June 9, and July 21, 1920;
No. 188; form 304; age, 16 years, but not 18 years.

Radio clerk (male and female); \$1,400 a year; No. 187; April 28, 1920; form 1312; age, 18 years

Assistant metallurgist (male and female); \$1,400 a year; April 27, 1920; age, 20 years and over; form 1312.*

Claims examiner (male); \$1,800 a year; April 28, 1920; form 1312; age, 21 years but not 50 years. Greek translator (male and female); \$1,200 to \$1,400 a year; May 5, 1920; form 304; age, 18 years and over.

and over.

Petroleum engineer (oil and gas production), (male and female); \$3,000 to \$4,500 a year; April 27, 1920; No. 117-amended; form 2118; age, under 45 years.*

Assistant petroleum engineer (oil and gas production), (male and female); \$2,100 to \$3,000 a year; April 27, 1920; No. 117-amended; form 2118; age, under 45 years.*

Physician (male and female), (Panama Canal Service); \$200 a month; May 5 and July 7, 1920; No. 15-amended; form 1312; age, 22 years but not 31 years.

Analyst (male and female); \$1,200 to \$1,500 a year; May 11, 1920; form 1312; age, 18 years but not 40 years.*

not 40 years. Director of home education (male and female); \$2,000 to \$2,500 a year; May 11, 1920; form 2118:

age, 21 years.* Laboratory aid, motion-picture laboratory (male and female); \$900 a year; May 5, 1920; form 304;

age, 17 years but not 45 years.

Metallurgist (male and female); \$7.60 a day; May 11, 1920; form 2118; age, under 40 years.*

Mining accountant (male and female); \$3,000 to \$4,500 a year; May 11, 1920; form 2118; age. under 60 years. Topographic draftsman (male and female); \$1,500 to \$1,880 a year; August 2, 1920; form 1312;

age, 21 years and over. †

Telephone auditor (male and female); \$1,600 a year; May 11, 1920; No. 227; form 1312; age. 23 years and over.*

Superintendent of forest pathological field station (male and female); \$1,440 to \$1,620 a year; No. 7-amended; form 1312; April 21, 1920; age, 21 years but not 45 years.

Assistant oil and gas inspector (male and female); \$2,000 to \$2,400 a year; April 27, 1920; No. 205:

form 2118; age, 20 years but not 45 years.*

Laboratory assistant, intermediate grade (male and female); \$1,080 a year; No. 329-amended; form 1312; age, within reasonable age limits.†

1312; age, within reasonable age limits.†

Laboratory assistant, junior grade (male and female); \$1,000 a year; No. 329-amended; form 1312; age, within reasonable age limits.†

Senior aid (male and female); \$900 a year; No. 329-amended; form 1312; age, within reasonable age limits.*

Physicist (male and female); \$1,400 to \$2,800 a year; No. 1160-amended; form 1312; age, 20

Deputy shipping commissioner (male and female); \$900 a year; No. 197; forms 1312 and 1141 or 2226; April 28, June 23, and August 18, 1920; age, 18 years and over.

Associate technologist (male and female); \$2,000 to \$2,800 a year; No. 648-amended; form 1312; age, within reasonable age limits.†

Assistant technologist (male and female); \$1,400 to \$1,800 a year; No. 648-amended; form 1312:

age, within reasonable age limits.†

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date. †Nonassembled Applications will be received at any time until further notice

### Local Civil Service Examinations.

The following examinations for the Panama Canal Service will be held at Balboa Heights, Canal Zone, on the following dates:

Clerk and postal clerk, April 25, 1920.
Stenographer and typist, May 2, 1920.
Usual entrance salaries are, Clerk and typist, \$106 to \$127 a month. Postal clerk, \$104 to \$125 a month. Stenographer and typist, \$116 to \$137 a month.
Full information in regard to the scope and character of examinations is contained in leaflets, forms 2203 and 2206, copies of which, including sample questions, may be obtained from the Secretary, Board of Civil Service Examiners, Room 244, Administration Building, Balboa Heights, Canal Zone, telephone Falboa 266. Balboa 286.

Applicants for the clerk examination must take at least one optional subject in addition to the Applicants for the clerk examination must take at least one optional subject in addition to the regular basis subjects. The optional subjects are typewriting, bookkeeping, general business training and experience and timekeeping training and experience. If the third optional is taken three letters of recommendation from former or present employers, written on a business letterhead and signed by the persons recommending the applicants, should accompany the application.

Applicants for the Postal Clerk examination must have had one year's experience in the United States or Canal Zone post offices or as postmaster or as Navy mail clerk, and must be familiar with the

receipt, distribution, and dispatch of mail matter, the issuance of money orders, registration of mail and the preparation of various reports required of postmasters.

Applicants must have reached their 18th but not their 45th birthday on the date of the examination must be citizens of the United States, physically sound and in good health.

Applicants must submit to the examiner on the date of the examination their photographs taken within two years, securely pasted on the admission card which will be sent to them after their applications have been filed and the questions have been received from the United States.

Applicants for the Clerk examination should state on the outside cover and also in answer to question No. I the portional subject or subjects desired in addition to the narre of the examination.

Applicants for the Clerk examination should state on the outside cover and also in answer to question No. 1 the optional subject or subjects desired in addition to the name of the examination.

In answer to question No. 4 applicants must show residence in some State or territory in the United States from the time of taking their residence therein to April, 1920, a ruling having been made by the Civil Service Commission that those temporarily employed on the Canal Zone retain their legal residence in the last State in which they resided prior to coming to the Isthmus.

Applicants of No. 1312 must be filled out, including the medical certificate but excluding the County Officer's Certificate, and should be filed promptly with the Board of Civil Service Examiners.

Balboa Heights, Canal Zone.

### Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings, or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	lstbmian residence.	Employed by-	Date of death.
*Alexander Williams	41902	Jamaica	Panama	Cattle Industry	February 28, 1920.
*Herbert Smith	52588	Bahama Island	Colon	R. and F. Agency	March 10, 1920.
Wilton Heywood	42670	Demerara	Colon	Marine Division	March 17, 1920.
Samuel Harris	25365	Jamaica	Colon	Panama Railroad	March 19, 1920.
Alfred Hewitt	27824	Jamaica	Colon	Panama Railroad	March 21, 1920.
Romulo Roman	29102	Panama	Colon	Mun. Eng. Div	March 16, 1920.
Joseph M. Glover	1826	United States	Balboa	Electrical Division	March 24, 1920.
Marino Ortez (Ortiz)	48005	Colombia	Colon	R. & F. Agency	March 26, 1920.
Ferming Pacheso					· ·
(Pacheco)	51035	Panama	Camp Bierd	Coaling Plants	March 22, 1920.
Gaspar Quinonez	50789	Panama	Camp Bierd	Coaling Plants	March 25, 1920.
James Hubert Thomp-					
son, alias Herbert					
Thompson	36754	Jamaica	Panama	Mechanical Division	March 16, 1920.
Manuel Rivas(Riba or					
Rios)	40853	Panama	Capira, R. P	Cattle Industry	March 17, 1920.
Pedro Quetro (Cueto).	50816	Panama	Panama	Coaling Plants	March 17, 1920.
Pedro Bueno	24292	Colombia	Gatun	Supply Department	March 18, 1920.
Joseph B. Bubb	48743	Grenada		Mechanical Division	March 21, 1920.
Fred Hunt	38687	Barbados	Camp Bierd	Building Division	March 21, 1920.
Alfred Barbosa	39647	Panama		Coaling Plants	March 23, 1920.
Joseph Ford	29908	Jamaica	Colon	Mun. Eng. Div	March 26, 1920.
Fred Harding	28885	Barbados	La Boca	Dredging Division	March 26, 1920.

^{*}First two items above readvertised account of errors in first notice published.

### Official Circulars.

### Acting Chief, Police and Fire Division.

THE PANAMA CANAL,

EXECUTIVE DEPARTMENT BALBOA HEIGHTS, C. Z., April 3, 1920.

HEADS OF DEPARTMENTS AND DIVISIONS: Effective April 5, 1920, and during the absence on leave of Mr. Guy Johannes, Police Inspector Arthur W. Kennedy will act as Chief of the Police

and Fire Division.

CHESTER HARDING, Governor.

### Loans of Property to Army and Navy.

THE PANAMA CANAL, EXECUTIVE DEPARTMENT

BALBOA HEIGHTS, C. Z., March 31, 1920. HEADS OF DEPARTMENTS AND DIVISIONS:

In connection with Circular 656-14, "Loan of Property for other than Official Use," please note that the provisions of this circular do not apply to loans to the several departments of the United States Army or Navy operating on the Isthmus, which will be considered the same as our own work, although loans made should be limited to such periods of time as it takes the Army and Navy to secure their own property, unless otherwise authorized by this office.

CHESTER HARDING, Governor,

### Executive Order-Punta Mala Naval Radio Station.

THE PANAMA CANAL, EXECUTIVE OFFICE

BALBOA HEIGHTS, C. Z., March 25, 1920. CIRCULAR No. 601-109:

The Executive Order quoted below is published for the information of all concerned.

CHESTER HARDING, Governor.

The area of land hereinafter described situated in the jurisdiction of the Canal Zone is hereby set in the jurisdiction of the Canal Zone is hereby set apart and assigned to the uses and purposes of a radio station, and other naval purposes, under the control of the Secretary of the Navy; but the said area shall be subject to the civil jurisdiction of the Canal Zone authorities in conformity with the Panama Canal Act. The said area is described as follows:

### PUNTA MALA NAVAL RADIO STATION.

The said radio station is part of the tract of land heretofore set apart for the uses and purposes of the Punta Mala Lighthouse of The Panama Canal, and comes within the following metes and bounds:

Commencing at the southernmost point of the said Radio Station, which point is designated on the blueprint herewith attached numbered 6030-2, dated June 18, 1919, and signed O. E. Malsbury, Assistant Engineer, as Point "B."

and is marked by a concrete monument; thence north seventy degrees, ten minutes, thirty-one seconds (N 70° 10′ 31″) west, five hundred and seventy-eight feet (578°) more or less, to a concrete monument at the intersection of this line with the western boundary of the Punta Mala Lighthouse Reservation, designated on said blueprint with the letter "D"; thence north (true) six hundred and ten feet (610′), more or less, to the intersection with the low water shore line of the cove at the northern end of the reservation. The line then follows the shore line of the cove to the northern end of the small point, thence follow and is marked by a concrete monument; thence The line then follows the shore line of the cove to the northern end of the small point, thence following the low water shore line in a southerly direction until the point "F," shown on the blueprint, is reached. The line then runs south sixty-one degrees, three minutes, twenty-nine seconds (S 61º 03' 29") west, a distance of five hundred and eighty-nine and five tenths feet (589.5') to the place of beginning marked "B" on the said blueprint. The total area of the Radio Station is approximately thirteen and seven Station is approximately thirteen and seven tenths (13.7) acres.

The shelter cove at the northern boundary of the Radio Station, which is used at high tide

or the Radio Station, which is used at high tide for landing supplies for the lighthouse as well as the Radio Station, shall be available for use of both the Lighthouse and Radio Services, and a right of way is hereby allowed the Punta Mala Lighthouse service through the Naval Reservation for the purpose of transporting supplies to and from the Lighthouse Reservation and the said landing.

WOODROW WILSON

THE WHITE HOUSE, March 1, 1920.

### Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT, BALBOA HEIGHTS, C. Z., March 29, 1920.

CIRCULAR No. 235:

Effective March 27, 1920, Capt. Charles Svensson is designated an accountable official of The Panama Canal, vice Capt. L. A. Helliksen, and as such will account for all nonexpendable property in use by the Captain of the Port, Balboa.

H. A. A. SMITH, Auditor, The Panama Canal.

Approved:

CHESTER HARDING, Governor.

### Accountable Official.

THE PANAMA CANAL. ACCOUNTING DEPARTMENT,

BALBOA HEIGHTS, C. Z., March 30, 1920.

CIRCULAR No. 236:

Effective March 25, 1920, Mr. O. M. Ewing is designated an accountable official of The Panama Canal, vice Mr. M. F. Bradney, and as such will account for the storehouse stock, Medical Storehouse, Ancon.

H. A. A. SMITH, Auditor, The Panama Canal.

Approved: CHESTER HARDING.

Governor.

### Sale of Clapet No. 7.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10.30 a. m., April 14, 1920, and then opened, for the purchase of Clapet No. 7, located at Gatun. Detailed information and forms of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any Panama Canal reserves the right to reject any or all hids.

### Additions to Commissary Stock.

Dry Goods Section.

Hats, straw, men's, Cuban, ea.....\$3.05 Hats, straw, men's, Cuban, ea......3.15

### OF OCEAN VESSELS.—Continued from MOVEMENTS

PORT OF CRISTOBAL, -Continued

		Eos	New York and wayports. New Orleans. Colon.	Valparaiso,
	DEPARTURES.	Line	April 3. Governor Forbes. Caribbean Steamship Co. New York and April 3. Arabia (n). W. V. N. Powellson. Colon. LBOA.	April 2 Annette Rolpb Rolph Navigation Co. Valparais
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		Vessel.	Governor Forbes. Ninian. Arabia (n).	Annette Rolph
		Date.	April 3	April 2
		From.	New York. April New York and Kingston. April St. Nazaire and wayports. April Norfolk.	Vancouver, B. C. High seas.
*ARRIVALS,		Line.	Panama Railroad Steamship Line. New York.  Caribbean Steamship Co. New York and Kingston. April 3. French Line. United States Navy.  Port of Balboa.	Rolph Navigation Co Vancouver, B. United States Shipping Board High seas.
	1 11	v essel,	Allianea. Governor Forbes Feron Eagle boat No. 4 ship.	April 1 Annette Rolph
	Date	Date.	April 1 Allian April 2 Gove April 2 Feror April 2 Fazle (n) Motor ship.	April 1

are expressed on the 24-hour basis and all hours greater than 12 are postmeridian

Hours 8

*Other than ships passing through the Canal

Returned from sea for repairs.

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### THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

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Volume XIII.

Balboa Heights, C. Z., April 14, 1920.

No. 35.

### Canal Traffic in March.

Canal traffic for March, 1920, is shown as classified in the following tabulation:

No.	Registry.	Registered	Registered	Panama Canal net	Tons	Pacific to	Atlantic.
ships.		tonnage.	tonnage.	tonnage.	cargo.	From—	То—
26 4	American Norwegian.	94,783 13,119	62,105 8,643	71,444 10,579	119,766 20,576	W. coast S. America W. coast S. America	E. coast U. S. E. coast U. S.
1	Danish	2,858	1,692	2,459	4,550	W. coast S. America	E. coast U. S.
31		110,760	72,440	84,482	144,892	W. coast S. America	E. coast U. S
11	British Peruvian	16,353 17,085	8,731	12,060 10,698	9,769 8,233	W. coast S. America	Cristobal.
3	Chilcan	9,096	9,104 5,521	7,989	4,986	W. coast S. America W. coast S. America	Cristobal. Cristobal.
1	American	615	372	350	508	W. coast S. America	Cristobal.
19		43,149	23,728	31,097	23,496	W. coast S. America	Cristobal.
5	British Italian	23,521 11,647	14,229 7,324	19,692 8,311	25,658 10,500	W. coast S. America W. coast S. America	Europe.
3 2 2 2 1	American.	13,064	9,668	10,615	18,202 13,300	W. coast S. America	Europe.
2	French	11,606	7,251	8,322 7,847	13,300	W. coast S. America	Europe.
2	German Japanese	9,691 8,134	6,124 5,046	5,900	9,869 11,400	W. coast S. America W. coast S. America	Europe. Europe.
1	Norwegian.	6,578	4,081	5,156	8,025	W. coast S. America	Europe.
î	Swedish	3,774	2,875	3,967	5,700	W. coast S. America	Europe,
1	Spanish	3,482	2,490	2,615	5,042	W. coast S. America	Europe.
1	Peruvian	3,161	1,683	2,273	3,410	W. coast S. America	Europe.
19		94,658	60,771	74,698	111,106	W. coast S. America	Europe.
7	British	61,117	40,316	50,293	47,225	Australia and N. Z'land.	Europe.
1	American.	6,208	3,835	5,256	8,810	Australia and N. Z'land.	E. coast U. S.
9	American.	44,595	28,965	34,681	56,832	United States coastwise.	
1	British	6,534	6,061	4,652	8,954	Far East	E. coast U. S.
1	Norwegian.	6,369	3,485	5,052	Ballast	Far Fast	E. coast U. S.
1	Japanese	5,965	4,257	4,722	8,297	Far East	E. coast U. S.
3		18,868	13,803	14,426	17,251	Far East	E. coast U. S.
1	American Norwegian.	19,982 4,894	13,414 3,054	15,085 3,886	20,842 3,375	W. coast U. S	Europe.
5		24,876	16,468	18,971	24,217	W. coast U. S	Europe.
2 2	Norwegian. American.	14,042 13,874	8,858 9,711	10,188 11,218	Ballast Ballast	W. coast S. America W. coast S. America	Mexico. Mexico.
4		27,916	18,569	21,406	Ballast	W. coast S. America	Mexico.
4	French British	10,147 7,619	6,265 4,874	7,013 5,443	8,052 7,021	British Columbia British Columbia	Europe. Europe.
5	Dittisit	17,766	11,139	12,456	15,073	British Columbia	Europe.
1	American British	3,351 1,128	2,051 650	2,268 692	2,064 615	Central America	Cristobal. Cristobal.
3		4,479	2,701	2,960	2,679	Central America	Cristobal.
2	American.	5,812	3,516	4,369	3,951	San Francisco	Cristobal.
1	American	5,899	3,711	4,623	7,900	Far East	Cuba.
1	British	3,271	2,108	2,585	746	W. coast Cen. America	Europe.
1	American	2,730	1,693	1,976	1,865	West coast U. S	Cuba.
1	Costa Rican	30	25	25	Ballast	Panama	Port Limon, C. R.
		472,134	303,788	364,304	466,043		

No.	l	Registered		Panama	Tons	Atlantic to	Pacific.
ships.	Registry.	gross tonnage.	net tonnage.	Canal net tonnage.	cargo.	From-	То—
23 3 2 1 1	American British Norwegian. Dutch Danish	105,860 22,255 8,681 6,561 4,828	68,297 13,248 5,447 4,164 3,030	81,335 16,106 8,168 4,871 4,220	33,965 5,245 Ballast Ballast 3,336	E. coast United States E. coast United States E. coast United States E. coast United States E. coast United States	W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America.
30		148,185	94,186	114,700	42,546	E. coast United States	W. coast S. America.
9 2 5 4	British American Chilean Peruvian	15,726 1,230 14,779 17,085	8,637 744 9,101 9,104	11,952 700 12,632 9,841	6,186 688 2,174 2,030	Cristobal Cristobal Cristobal Cristobal	W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America.
20		48,820	27,586	35,125	11,078	Cristobal	W. coast S. America.
3 3	American Norwegian.	21,523 21,029	15,488 13,280	16,461 15,269	27,893 23,700	Mexico	W. coast S. America. W. coast S. America.
6		42,552	28,768	31,730	51,593	Mexico	W. coast S. America.
4 2 2 1 1	British Dutch Italian French Japanese	16,294 8,057 10,343 5,765 3,390	9,867 5,017 6,308 3,681 2,044	12,065 7,982 7,882 4,146 2,480	7,775 2,475 1,350 235 Ballast	Europe. Europe. Europe. Europe. Europe. Europe.	W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America.
10		43,849	26,917	34,555	11,835	Europe	W. coast S. America.
2	British	907	37	216	Ballast	St. Lucia	W. coast S. America.
1	Chilean	3,599	2,367	2,286	Ballast	Fayal	W. coast S. America.
1	American	2,917	1,708	1,828	Ballast	Port Rico	W. coast S. America.
4 3	British American	26,249 18,334	16,510 12,134	19,555 15,016	21,831 21,383	E. coast U. S E. coast U. S	Australia and N. Z. Australia and N. Z.
7		44,583	28,644	34,571	43,214	E. coast U. S	Australia and N. Z.
5	British	43,017	28,299	33,264	34,604	Europe	Australia and N. Z.
12 7 6	American British Japanese	74,176 42,337 42,848	48,558 26,571 27,224	62,420 33,782 32,411	88,397 53,363 46,891	E. coast U. S E. coast U. S E. coast U. S	Far East. Far East. Far East.
25		159,361	102,353	128,613	188,651	E. coast U. S	Far East.
1	American.	1,381	1,263	1,237	1,843	Europe	Honolulu.
3	American.	9,917	7,134	8,104	7,650	U. S. coastwise.	
2 · 1 1	American. Norwegian. Swedish	4,322 7,093 3,745	4,044 4,479 2,858	4,065 5,627 4,019	Ballast 8,300 4,950	Europe. Europe. Europe.	W. coast U. S. W. coast U. S. W. coast U. S.
4		15,160	11,381	13,711	13,250	Europe	W. coast U. S.
2	American	4,796	2,963	3,756	2,992	Cristobal	W. coast U. S.
1	British	1,128	650	692	590	Cristobal	W.coast Cen. America.
1	American	6,188	3,821	5,256	9,127	E. coast U. S	W. coast Canada.
1	American	7,045	4,352	5,341	9,500	Mexico	W. coast U. S.
1	American	80	53	73	Ballast	Kingston, Jamaica	W coast U.S.
121		583,485	372,482	455,058	428,473		

In addition to above vessels, two British cruisers, the *Renown* and *Calcutta*, with a displacement tonnage of 33,379 and 4,754, respectively, were included in the southbound commercial traffic of the month.

### Passage of Rebuilt "Cristobal" Through the Canal.

The steamship *Cristobal* of the Panama Railroad Steamship Line, rebuilt at Balboa shops and recently given a trial trip in the Bay of Panama, went through the Canal from Balboa to Cristobal in the afternoon of April 13. She left the repair wharf at Balboa shops at

12.34 and reached Cristobal at 10.05 p.m., tying up at Pier 7. Further work is to be done on her at Cristobal, especially in the woodwork of the forward saloon and in some of the cold storage spaces, after which she will load for New York. A number of shipwrights made the trip from Balboa aboard the ship, working while she was in passage, and other employees of the shops went across the Isthmus by train in the afternoon to join them in carrying the work to completion. They will be quartered in Cristobal for the duration of the The Superintending Engineer of the Panama Railroad, the Assistant Superintendent of the Mechanical Division, and several employees who had had especial connection with the installation of her fuel-oil system, boilers, engines, etc., went through the Canal on the ship. She performed excellently throughout, answered the helm readily, and made the approaches to the locks and pier and passage past Cucaracha slide without any difficulty.

### Chilean Liner "Huasco" Dry-docked at Balboa.

The steamer Huasco, one of the vessels of the Compañia Sud Americana de Vapores, the Chilean Line, engaged in the freight and passenger service of that company between Cristobal and Valparaiso, with calls at important Peruvian and Chilean ports, went into the 1,000-foot dry dock at Balboa in the evening of April 12. While in dock repairs will be made to the rudder, the shell plates which were damaged and temporarily repaired some weeks ago, and such other underwater parts as may require work. The bottom will be cleaned and painted.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending April 10, 1920.

				Car	до—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Laura C. Hall. Ninian Caribbean Chile Lake Hurst. Cauca Perou Stuyvesant Atenas Panama Allianea Salvador Ulysses	Pacific Metals Corporation Harrison Steamship Line Panama Railroad Cattle Industry Pacific Steam Navigation Co. United States Shipping Board Pacific Steam Navigation Co. French Line Royal Netherland W. I. Mail. United Fruit Co. Panama Railroad Steamship Line Panama Railroad Steamship Line Pacific Steam Navigation Co. Pacific Steam Navigation Co. Panama Railroad Steamship Line	April 4. April 5. April 5. April 5. April 5.	April 4 April 8 April 6 April 7 April 7 April 7 April 8 April 8 April 9 April 9	1,933	(†) 1,103 225½ 184 105 3,481 2,225 948
San Pablo. Carrillo Victorious. Trident. Caribbean. Huasco. Huallago Corning. Edeecombe. Balboa.	United Fruit Co. United Fruit Co. United States Shipping Board Pacific Steam Navigation Co. Panama Railroad Cattle Industry. Chilean Steamship Line. Peruvian Steamship Line. Standard Oil Co. United States Shipping Board. Colombian Maritime Co.	April 7 April 7 April 7 April 7 April 7 April 8 April 8 April 8 April 9	April 8. April 8. April 9. April 10.	596½ (*) 9,195 10 250 1,545 2,641 7,000 8,910	(†) 603 366 (†) 3,137

^{*} No cargo discharged.

### Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

Ma'ls for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

[†] No cargo laded.

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight April 10, 1920.

THROUGH THE CANAL-ATLANTIC TO PACIFIC.

Canal		Net	6,704	4,948	1,575	4 603			951	1,793	122	3,883	4,902	1,500	8.776	4,937	1,023	:	4 355	2,628		1,795	3,720	692	5,969	393	4,901
Panama Cana Tonnage		Gross	9,121	6,577	2,510	6 103	6,382	130	1,814	1.964	444	5,376	6,695	9,014	0.086	6,369	1,582	-	6 106	4,040	2,751	2,835	5,646	1,213	6,328	969	6,573
	Tons		9,300	6,770	:	7 950		24	1,800	2.800		5,008	7,712	:	8.310 10.989	7,000	1,103	:	6.580			1,645		846	8.361		1,431
	Cargo		General	Iron and general.		Öil	Case oil	General	General	lio			Coat		General	General	General		General			General		General	General		General
	For		Honolulu	Seattle	Coquimbo	Pisagua	Honohulu	Buenaventura.	Junin	Yokohama.	Chile	Paita	Antofogasto	Menllones	New Zealand.	Honolulu	Guayaquil	San Diego	Honolulu	Guayaquil	Antofagasta	Buenaventura.	Toeopilla	Champerico	Yokohama	San Francisco.	San Francisco.
	From		New York	London	Norfolk	Tuxpan	New York	Cristobal	Savannah	New York.	Saint Lucia	New York	Norfolk	Norfolk.	London	New York	Cristobal	Norfolk	New York	Cristobal	Norfolk	New York	Nortolk	Cristobal	New York	Habana	New York
Salt			27.6	63	11.0	26.0		10.0	13.0	22.0	14.3	23.6	13.6	13.6	27.0	26.1	15.6	2.5	24.0	17.1	25.4	17.0	20.0	24.0 0.0	27.9	15.6	17.0
	Веаш		57.0	53.0	44.0	53.0	53.0	25.0	44.0	40.0	29.0	52.0	0.00	40.7	62.0	49.0	35.2	20.0	54.0	43.0	43.7	40 0	49.0	33.0	55.0	38.0	54.0
	Length Beam		448.0	403.0	266.0	412 0	405.0	0.18	251.0	266.0	135.0	380.0	450.0	250.0	485.0	430.6	246.0	200.0	390.0	360.0	253.0	298.6	389.0	215.0	395.0	175.0	410.0
	Line		Prince Line, Ltd British Tanker Co.	United States Shipping Board.	United States Shipping Board.	Standard Oil Co	Clan Line	Aloghe Steamshin Co	United States Shipping Board	Standard Transportation Co	British Government.	United States Shipping Board	United States Shipping Board	United States Shipping Board.	New Zealand Shipping Co	Holder Weir & Boyd	Pacine Steam Navigation Co.	United States Navy	United States Shipping Board.	Pacific Steam Navigation Co.	United States Shipping Board.	W. R. Grace & Co.	United States Shipping Board	Tacine Steam Navigation Co	United States Shipping Board.	Caoba Corporation	United States Shipping Board.
;	Nationality		British	American	American		British						American.					American						American			American
Cleared for sea	mol	-+		3 13.55	5 14.56	1 24.10	20.37	5 91 40	3 7.30	9 11.30	18.12	18.28	3 19.33	3   9.36	3 15 07	3 16.05	21.20		3 17.52	3 21.20	2	9 23.29 8	01 71 0	00 41	18.45		10 17.25
	lour	1	20.03		18.20	2.01	19.14	0.15	1.54	5.22	7.31	7.30	8.33	8.31	4.17			7.10	Ξ.	8.13	_	00.7	6 95	10.20	7.48	95	
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,	ding		Slavic Prince British Admiral	Crani. LakeCharlottes-	ville	Brewster	Can Murdock.	Henry T. Scott.	Calaveras	Brumeltan (a).	Nt. Kevne (0)	Wost Hossoltino	Henry Clay	Calicoreck	Remuera	Nanerie	Fauls No 40	Eagle No. 40.	Schedack	Chile	Mingels	Areadia	Salvador	Victorious	Wytheville	Caoba.	West Datail

(a) Bark. (b) Tug.

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8,600 6.932 50 1,933 4,040 5,625 9,338	6,346 5,176 6,775 6,409 8,784 6,885 4,759 3,959 9,000 10,740	5,550 1,183 1,183 2,835 6,690 4,508	7,600 6,529 (7) 6,529 (7) 6,529 (7) 7,401 (7) 741 (7) 7,525 (7) 741 (8,525 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,625 (8,6
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Iquique. San Diego. Valparaiso. Wellington. Balboa	Valparaiso Autofagasta. Iquique Caleta Buena. Wellington. Balboa	Mejillones Vancouver Sydney Talcahuano Calcta Buena. Iquique	Taeona Callao Houskong Iquique Hongkong Hongkong Buenaventura Port Frie Portland San Francisco Seattle Tahora Island
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United States Shipping Board United States Navy. Parific Steam Navigation Co. New Zealand Shipping Co. George Healey	F. & W. Ritson Portuguese Government United States Shipping Board United States Shipping Board Commonwealth & Dom. Line. United States Army United States Army	Mitsui & Co. French Government. White Star Line United States Shipping Board. W. & Grace & Co. C. T. Bowning & Co. Chilean Line	United States Shipping Board. Pervivan Line Green Star Line United States Shipping Board. Rankin & Gilmour Co. Australian Stemship Co. United States Shipping Board. United States Shipping Board. United States Shipping Board. United States Shipping Board. United States Shipping Board. United States Shipping Board. United States Shipping Board. W. C. Hyder.
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Crisfield Orion (c) Chile Ruapehu Ben (d)	Hazel Branch Gos Tampa National Bridge Port Caroline. Commodore (4)		Mariner Huallaga West Cawthon Deknson St. Andrew Balloa Ashol West Campgaw Mehami Sastem Crac. St. Minver (b). Lock City (d).

(c) Collier, (d) Launeh. (e) For orders. (f) 8,126.62 tons. (g) 653.66 tons.

PORT OF CRISTOBAL,

		For—	Boeas del Toro. Carlagena. Blueficilis. Blueficilis. New Orleans, wayports. Pertro Colombia. Colombian ports.
*DEPARTURES.		Line.	Black Star Line Panama Railroad Cattle Industry. Cabuited States Shipping Board. Bl. United States Shipping Board. United Fruit Co. No. Prench Line Royal Netherland W. I. Mail. Co. United Fruit Co. United Fruit Co. No.
		Vessel.	Yarmouth. Caribbean. Lake Fackler. Lake Hurst. Parismina. Perou. Stuyesant Carrillo.
		Date.	April 4 April 4 April 4 April 6 April 7 April 7 April 7
		From-	Kingston. High seas. Norfolk. Amsterdam. New Orleans. New York. New York.
*ARRIVAL6.		Linc.	United States Shipping Board United States Navy. United States Navy. United States Shipping Board Royal Netherland W. I. Mail. United Fruit Co. Panama Railroad Steamship Line. United Fruit Co. United Fruit Co. Hall Brothers Steamship Co.
		Vessel.	Lake Fackler. Soicia. Lake Hurst. Stuyvesant. Atoms. Uyssee. San Pablo.
	1		: : : : : : :

### Tariff Supplement.

The Panama Canal has issued supplement No. 6 to Tariff No. 3, as follows:

THE PANAMA CANAL, PANAMA RAILROAD COMPANY,
BALBOA HEIGHTS, C. Z., April 1, 1920.

The following amendments are made to Tariff No. 3 and supplements thereto, Schedule of Rates for Supplies and Services Furnished to Shipping and Allied Interests at the Panama Canal:

ITEM 22—FUEL AND DIESEL OILS.

Effective April 15, 1920.

1. Fuel oil per barrel of 42 gallons, delivered to vessels at either Cristobal or Balboa. \$2.00

ITEM 29—QUARANTINE. . Effective February 16, 1920.

4. Night quarantine service. For inspection on night of arrival if vessel arrives prior to 10 p. m., from ports not subject to yellow fever quarantine:

Passenger vessels \$40.00 Other vessels 20.00

ITEM 32—HOTEL WASHINGTON.

4. Table Board.

	Adults.	Nurses.	Children under 12 years of age
Monthly—Breakfast, luncheon, and dinner,	\$85.00	\$60.00	\$60.00
Breakfast. Luncheon Dinner.		\$0.75	A la carte A la carte A la carte

### ITEM 33—HOTEL TIVOLI. 5. Table Board.

	Adults.	Nurses.	Children under 12 years of age
Monthly-Breakfast, luncheon, and dinner	\$85.00	\$60.00	\$60.00
Breakfast. Luncheon. Dinner.	A la carte \$1.50 1.75		A la carte A la carte A la carte

CHESTER HARDING.

Governor, The Panama Canal. President, Panama Railroad Company.

### Sugar Mill Machinery for Mormon Colony in Panama.

A whole cargo of sugar mill machinery for a Mormon colony in the Province of Chiriqui, Republic of Panama, was carried through the Canal by the steamship *Oregon* on April 11. The shipment was from New Orleans to Rabo de Puerco, R. P., a small port near the Costa Rican boundary, and consisted of 780 tons.

### Exchange of Third and Fourth Issue Liberty Bonds.

The Liberty Loan Committee authorizes the following:

The Liberty Loan Committee of The Panama Canal is now prepared to receive coupon bonds of the third and fourth issues for exchange into permanent coupon bonds of the same issue bearing all interest coupons or into registered bonds of the same issue.

Due to the effort of this committee and that of the American Foreign Banking Corporation, in Panama, an arrangement has been completed whereby temporary coupon bonds can be converted into permanent coupon bonds of the same issue without sending them to Washington. The arrangement has been made through the Federal Reserve Bank of New York. Coupon bonds will be canceled here and

transmitted to New York, the permanent bonds being furnished through the Federal Reserve Bank of New York as soon as the requirements of the Canal Zone subscribers

are known.

Forms to be filled out by subscribers who desire to exchange third and fourth issue temporary coupon bonds into permanent coupon bonds or registered bonds of the same issue will be ready for distribution in a few days. Canal Zone subscribers are informed that if they do not desire to exchange their bonds through The Panama Canal Liberty Loan Committee they can be forwarded direct to the Division of Loans and Currency, Treasury Department, Washington, D. C.

As no time limit has yet been fixed within which temporary bonds can be exchanged for permanent bonds, owners can have their bonds exchanged when they return to

the United States if they so desire.

All interest coupons must be detached before submitting bonds for exchange.

### Weather Conditions in March, 1920.

The rainfall for the month was generally below normal everywhere except along the Continental Divide. Totals ranged from 0.02 inch at Miraflores and Darien to 1.92 inches at the Chillibrillo station. The greatest amount of rainfall recorded on any one day was 0.73 inch at Juan Mina on the 25th.

The estimated rainfall over the Gatun Lake watershed was 0.61 inch, compared with a 10-year mean of 0.81 inch, and over the Chagres River basin above Alhajuela

it was 0.60 inch, compared with a 19-year mean of 1.08 inches.

The air temperature was normal on the Pacific Coast and above normal on the Atlantic Coast, while the daytime cloudiness was slightly below normal on the Pacific Coast and slightly above on the Atlantic. The atmospheric pressure and relative humidity were below normal, while the temperature of the sea water was slightly above normal. The wind movement was approximately normal and the evaporation was above normal on the Pacific Coast, but below normal over the lake surface at Gatun.

A few fogs were observed during the month, all of which were dissipated by 8 a.m. Light earthquakes were recorded on the 4th, 6th, 7th, 15th, 18th, and 20th.

Gatun lake hydrology—Mean elevation of Gatun Lake was 84.08 feet, maximum 84.64 feet on the 1st, minimum 83.47 feet on the 31st; evaporation from Gatun Lake surface, 6.967 inches; rainfall on Gatun Lake drainage basin, 0.61 inch; total yield of Gatun Lake watershed, 0.52 inch on the watershed; the total yield amounted to 85 per cent of the rainfall.

The following table gives a summary of weather conditions for the month:

	ueed 24	Temperature.					P	recipita	tion.		Wind.				
Stations.	Pressure (redue to mean of 2- hours).	Mean.	Maximum.	Date.	Minimum.	Date.	Mean relative humidity.	Total inches.	Station average.	Days with 01 inch or more.	Fotal move- ment (miles).	Prevailing direction.	Maximum veloe- ity in miles.	Direction.	Date.
Balboa															
Heights		81.2		Mar. 27		Mar. 6	72 6		0.62	1	8,692	N.W.	32	N.	Mar. 8
Colon		81.8	89	Mar. 24		Mar. 6	75.7	1.08	1.58	14	11,537	N.	30	N.	Mar. 8
Gamboa		80 4	94	Mar. 27	68	Mar. 6 & 7		.21	.71	6		N.E.	31	N.E.	Mar. 7
Gatun	1	80 5	89	*Mar. 23	70	Mar 10		71	1.99	10	7,879	N.	39	N.	Mar. 13

^{*} And 27.

### High Temperature—Atlantic Side.

A maximum air temperature of 93° F. was recorded at Cristobal on Sunday, April 11, 1920.

This is the highest temperature of record on the Atlantic side during the past 12 years; the previous maximum record being 92° F.

The highest air temperature ever recorded in the Canal Zone or vicinity is 97° F., recorded at the Naos Island Station on February 13, 1906, and again at Ancon on April 7, 1912.

### A Week Without Admissions with Malaria from the Canal Zone.

During the week ending April 3 no patients with malaria were admitted to the Canal hospitals from the Canal Zone, and only two from areas outside the Zone. One of these was a white employee who

had made a 7-day trip from Summit to Nombre de Dios, and the other was a colored employee who had been released from jail at Porto Bello on March 2. Among the employees, 1,492 are in pasture camps or on plantations, where they are exposed to infection, and the good showing with respect to them is attributed principally to the regular use of quinine prophylaxis.

### Streets of Ancon-Balboa.

THE PANAMA CANAL, EXECUTIVE OFFICE. BALBOA HEIGHTS, C. Z., March 31, 1920.

To all concerned—The following plan for naming the residential streets in Ancon, Balboa Heights, and Balboa is approved. The plan affixes names of many old Canal settlements and neighboring localities to streets, gives the names of President Roesevelt and Senator Morgan to two important streets, and provides for naming a street in Balboa after each former Canal employee who lost his life in the military or naval service during the World War.

Beginning at the boundary line between Ancon and the city of Panama, the line road from the Ancon post office to Chorrillo shall retain the name of Fourth of July

Avenue.

From Chorrillo, the road leading to Balboa is to be named Balboa Road. As such it extends past the restaurant, Balboa clubhouse, the ice plant, and Balboa shops to the end of the plot in which is situated the Pacific terminal office building. From this point, the new road leading to Diablo where it joins the Corozal Road shall be known

From the Ancon post office, the street extending along the boundary in front of the

Tivoli Hotel to the Corozal Road shall be known as Tivoli Avenue.

The main road from Panama to the Administration Building at Balboa Heights extending from Tivoli Avenue opposite De Lesseps Plaza, shall be named Ancon Boulevard.

The road from the Ancon post office, through the grounds of Ancon Hospital, shall be known as Hospital Road to the top of the hill at the women's bachelor quarters, where it becomes the Heights Road, extending past the Governor's residence and the residence of the Marine Superintendent to the Administration Building.

The road branching to the south to the old site of Ancon Quarry shall be known as

Quarry Road, to the entrance to the military reservation.

The short street roughly paralleling Quarry Road, branching from the Heights Road at a point about midway between the Governor's residence and the residence of the Engineer of Maintenance, shall be known as Prospect Street.

The road extending from the Heights Road through the area formerly occupied by Ancon cemetery, and now flanked by cottages on either side, shall be called Ridge

Road.

The road running from the boundary line in front of Army Headquarters (the old Administration Building) to Hospital Road, just below the main entrance to the new ward buildings and above the Catholic chapel, shall be known as Columbia

Opposite the Ancon post office, the street running parallel to Fourth of July Avenue, and winding up the hill until it joins Columbia Road at the beginning of the row of officials' houses, shall be known as Culebra Road.

The little park in front of the Ancon commissary shall be called Poinciana Plaza.

The street running from Tivoli Avenue, between the Masonic Temple and the Ancon schoolhouse to the commissary, shall be called San Blas Place.

The street from the Ancon commissary to Ancon Boulevard at the Ancon fire station, shall be called Mamei Place.

The street from Hospital Road, passing the west side and rear of the Ancon commissary and between the medical storehouse and the Ancon clubhouse to Ancon Boulevard, thence in the rear of the Tivoli Hotel to Tivoli Avenue near the railroad shall be called Porto Bello Street.

The street from Hospital Road, just above the admitting office, to Ancon Boulevard running between the Ancon restaurant and the medical storehouse, shall be called

Frangipani Street.

The street extending from Ancon Boulevard north, past the greenhouse to Ancon

laundry, shall be called Chame Street.

The road running from Ancon Boulevard to the Department Quartermaster's office and the bachelor quarters on the hill on which the old reservoir is situated, shall be called Reservoir Road.

Beyond the reservoir hill, the street running down the hill, toward the railroad, and popularly known as "Factory Row," shall be named Chagres Street. Chagres Street extends through the corral and up the steep hill just beyond the corral, rejoining Ancon Boulevard in the old asylum grounds.

The street branching off to the northwest from Chagres Street and extending on a low level near the railroad past the District Quartermaster's office to the Panama

Railroad station at Balboa, shall be called Mindi Street.

The short road extending from Ancon Boulevard, in the old asylum grounds, up hill to the south, shall be known as San Juan Place.

The short street beyond this, on the opposite side of Ancon Boulevard at the foot of the hill, running to Mindi Street, shall be called Bohio Place.

The road just beyond Bohio Place and branching to the south from Ancon Boulevard, running uphill in the general direction of the Administration Building and swinging along the side of the hill on which is situated the residence of the Electrical Engineer, until it joins, opposite the residence of the Chief Quartermaster, the Heights Road coming down to the Administration Building, shall be known as Cascadas Road.

The steep road extending from Cascadas Road past the Governor's residence to the junction with the Heights Road and Hospital Road at the women's bachelor quarters

shall be called Lion Hil! Road.

In the old hospital grounds, the road extending from Hospital Road opposite upper end of old Ward 15, or the upper end of the present concrete ward buildings, to the old French ward buildings now being reconstructed into family quarters, shall be called Darien Place.

The road extending from Darien Place at the head of the old French steps to Hospital Road in front of the 3-story bachelor quarters for men, shall be called Sosa

Place.

The road branching from Ancon Boulevard just above the Baptist Church at Balboa Heights, and leading down to the Balboa railroad station, shall be known as Gorgona Road. This road extends to the Prado, running past the Balboa fire station and between the Balboa police station and Balboa playground to its junction with the Prado.

The street branching from Gorgona Road at the Balboa railroad station and running straight to Balboa Road near the Electrical Substation, shall be known as Roosevelt Avenue; crossing Balboa Road, Roosevelt Avenue extends past the south side of the Balboa shops to junction with La Boca Road in the rear of the coaling

The street extending from Roosevelt Avenue, past the Balboa fire station, to the front of the Administration Building, past the Balboa high school, uphill and along the foot of Ancon Hill to Balboa Road, at house 861, shall be called Morgan Avenue.

The street extending from the Prado at its end nearest the Administration Building, past the Balboa high school on the opposite side from Morgan Avenue, and between houses 1401 and 1402, down to House 1431 on the Balboa flats, shall be known as Carr Street.

The street extending from Carr Street in the rear of the 4-family quarters on the Prado nearest the high school to Balboa Road near the Union Church, shall be known

as Barnebey Street.

The first street branching to the left from the Prado on the way from the Admininis-

tration Building to the Balboa clubhouses, shall be called Enterprise Place.

The second street, at the district sanitary inspector's office, shall be called Las Cruces Avenue. It extends across Barnebey, Carr, Holden, Dohrmann, and Owen Streets to the circle at house 1461.

The street running from Carr Street to house 1431, crossing Las Cruces Avenue

to the circle at house 1465, shall be known as Holden Street.

The street paralleling Holden Street from house 1472 to Las Cruces Avenue, shall be known as Dohrmann Street.

The street running from Balboa Road on the west side of the Army and Navy Y. M. C. A. to the circle at the end of Las Cruces Avenue, shall be known as Owen Street. The street running from Balboa Road just below the junction of Morgan Avenue, parallel to the first part of Morgan Avenue to the street on the east side of the Army and Navy Y. M. C. A., shall be known as Pyle Street.

The highway running to the incinerator on Gavilan Island, on the other side of

Balboa Road, shall be known as Gavilan Road.

The street extending from Gavilan Road to Amador Road, flanked on its south

side by a number of cottages, shall be called Plank Street.

The road extending from Balboa Road at the Balboa restaurant to the military reservation at Fort Amador, shall be known as Amador Road.

The road branching from Amador Road south of the Balboa restaurant, and running roughly parallel to it and on a higher level with 4-family houses on both sides, shall be called Empire Street.

The road running from Balboa Road at the junction of Amador Road, to La Boca,

shall be called La Boca Road.

The street extending from La Boca over the southeast side of Sosa Hill to Balboa Road at the Balboa clubhouse, shall be known as Tavernilla Street.

The street extending from house 783, the house highest up on Sosa Hill, across Tavernilla Street, past St. Mary's Church, and down past the Union Church to Balboa Road, shall be called San Pablo Street.

In La Boca the first street branching to the south from La Boca Road, shall be called Trinidad Street; the second, St. Thomas Street; and the main avenue extend-

ing to the school building, shall be called Jamaica Prado.

The most westerly of the streets paralleling Jamaica Prado, shall be called Mar-

tinique Street.

The three streets running perpendicular to Trinidad, St. Thomas, and Martinique Streets and Jamaica Prado, and parallel with La Boca Road, are, in order from La Boca Road: Guadeloupe, Barbados, and San Domingo streets, San Domingo Street being the southernmost street, on which are situated the clubhouse and the school building.

Of the names given in memory of men, one is for President Theodore Roosevelt, another for Senator John T. Morgan of Alabama, and the others for Canal employees

who lost their lives during the war.

Barnebey Street is named after Walter Barnebey, formerly a wireman in the Electrical Division, who resigned prior to our entrance into the war, but later entered our aviation service and was killed in France, receiving the French Croix-de-Guerre. Carr Street is named after Challis C. Carr, formerly general operator, Pacific

Locks, killed in action in France.

Holden Street is named after Vernon A. Holden, formerly sanitary inspector, Health Department, killed in action in France.

Owen Street is named after Nathaniel J. Owen, formerly control house operator,

Pacific Locks, killed in action in France.

Dohrmann Street is named after Howard J. Dohrmann, formerly postmaster, Civil Affairs, died of disease in France. Pyle Street is named after Hugh H. Pyle, formerly progress foreman, Mechanical

Division, died of disease in France.

Plank Street is named after William J. Plank, formerly draftsman, Mechanical Division, who died in training camp in the United States.

The following employees will have streets named for them in the Balboa area as he

gold settlement is enlarged, all having died in service but not in France:

Carl B. Clinton, formerly commissary assistant. Louis Pearson, formerly restaurant manager.

George W. Pendleton, formerly clerk, Division of Civil Affairs, together with any others whom our records as yet have failed to locate.

> CHESTER HARDING. Governor.

### Local Civil Service Examinations.

The following examinations for the Panama Canal Service will be held at Balboa Heights, Canal Zone, on the following dates:

Clerk and postal clerk, April 25, 1920.
Stenographer and typist, May 2, 1920.
Usual entrance salaries are, Clerk and typist, \$106 to \$127 a month. Postal clerk, \$104 to \$125 a month. Stenographer and typist, \$116 to \$137 a month.
Full information in regard to the scope and character of examinations is contained in leaflets, forms 2203 and 2206, copies of which, including sample questions, may be obtained from the Secretary, Board of Civil Service Examiners, Room 244, Administration Building, Balboa Heights, Canal Zone, telephone Balboa 286.

Balboa 286.

Applicants for the clerk examination must take at least one optional subject in addition to the regular basis subjects. The optional subjects are typewriting, bookkeeping, general business training and experience and timekeeping training and experience. If the third optional is taken three letters of recommendation from former or present employers, written on a business letterhead and signed by the persons recommending the applicants, should accompany the application.

Applicants for the Postal Clerk examination must have had one year's experience in the United States or Canal Zone post offices or as postmaster or as Navy mail clerk, and must be familiar with the receipt, distribution, and dispatch of mail matter, the issuance of money orders, registration of mail and the preparation of various reports required of postmasters.

Applicants must have reached their 18th but not their 45th birthday on the date of the examination, must be citizens of the United States, physically sound and in good health.

must be citizens of the United States, physically sound and in good health.

Applicants must submit to the examiner on the date of the examination their photographs taken within two years, securely pasted on the admission card which will be sent to them after their applications have been filed and the questions have been received from the United States.

Applicants for the Clerk examination should state on the outside cover and also in answer to question No. 1 the optional subject or subjects desired in addition to the name of the examination.

In answer to question No. 4 applicants must show residence in some State or territory in the United States from the time of taking their residence therein to April, 1920, a ruling having been made by the Civil Service Commission that those temporarily employed on the Canal Zone retain their legal residence in the last State in which they resided prior to coming to the Isthmus.

Application form No. 1312 must be filled out, including the medical certificate but excluding the County Officer's Certificate, and should be filed promptly with the Board of Civil Service Examiners. Balboa Heights. Canal Zone.

### Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings, or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check Native of—		Isthmian residence.	Employed by-	Date of death.
Arcidez Martinez(alias Arcedia Martinez James Martin Emiliano Marquis		Panama Jamaica	Camp Bierd	Building Division Coaling Station	
(Marquez) Thomas Nango	42034	Colombia	Farfan	Cattle Industry	March 30, 1920
(Mango)		Panama Jamaica	Chorrera	Cattle Industry Section of Surveys	March 30, 1920. November 3, 1910

### Official Circulars.

### Former Employees Discharged from Military Service.

THE PANAMA CANAL, EXECUTIVE OFFICE

BALBOA HEIGHTS, C. Z., April 12, 1920.

BALBOA HEIGHTS, C. Z., April 12, 1920.

To all concerned—The following excerpt from
the Naval Appropriation Act of July 11, 1919,
is quoted for the information of all concerned:
"All former Government employees who have
entered the military or naval service of the United
States in the war with the German Government
shall be reinstated on application to their former
positions if they have received an honorable discharge and are qualified to perform the duties
of the position."

CHESTER HARDING

CHESTER HARDING, Governor.

### Revised Travel Regulations.

THE PANAMA CANAL, EXECUTIVE DEPARTMENT BALBOA HEIGHTS, C. Z., April 8, 1920.

To all concerned-The following Executive Order was signed by the President under date of February 20, 1920, and is now in effect in the Canal Zone with respect to the departure of alien enemies for European ports:

alien enemies for European ports:

"By virtue of the author ty vested in me by 'An Act to Prevent in Time of War Departure From and Entry Into the United States Contrary to the Public Safety,' approved May 22, 1918, I, Woodrow Wilson, President of the United States of America, hereby amend Executive Order of August 8, 1918, 'Governing the Issuance of Passports and the Granting of Permits to Depart From and Enter the United States,' by the following provisions:

"Hereafter, persons who by any statute or proclamation may be defined as alien enemies, and who desire to depart by vessel from any port of the United States for any European port, shall not be required to obtain a permit of this

shall not be required to obtain a permit of this Government prior to such departure. Such Government prior to such departure. Such persons will be permitted to depart upon presentation of a passport issued, renewed, or visaed by a representative of their respective Governments within six months prior to the proposed date of departure, accompanied by a certificate of compliance with the income tax law." The above order repeals the provisions contained in the Revised Travel Regulations of July 19, 1919, that hostile aliens shall procure special permits by application at the police stations at Balboa or Cristobal to depart from the Canal Zone, as well as the provisions of the circular of March 9, 1920, issued by this office on the same subject. subject.

CHESTER HARDING,

Governor

### Charges for Property Lost.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT, BALBOA HEIGHTS, C. Z., April 6, 1920.

CIRCULAR No. 237:

CIRCULAR No. 237:
When form 5221, "Certificate of Charges on Pay Roll Covering Property Lost, Destroyed, or Damaged through Carelessness or Neglect! of Responsible Parties," covers breakage in hotels, restaurants, and clubhouses, it will be used for financial accounting only and will be so marked. All broken articles shown thereon in such cases will be preserved and presented for survey as unserviceable property.

unserviceable property.

In all other instances the use of this form will be continued as heretofore.

H. A. A. SMITH,

Auditor, The Panama Canal

Approved:

CHESTER HARDING. Governor.

### Acting General Manager, Commissary Division.

THE PANAMA CANAL, SUPPLY DEPARTMENT,

Balboa Heights, C. Z., April 9, 1920.

Memorandum to all concerned-Effective Friday, April 9, and during the absence on leave of Mr. J. J. Jackson, Mr. A. W. Goulet is appointed Acting General Manager of the Commissary

R. K. Morris, Chief Quartermaster

Approved:

CHESTER HARDING, Governor.

### Shipment of Household Goods to New York.

THE PANAMA CANAL. EXECUTIVE DEPARTMENT

BALBOA HEIGHTS, C. Z., April 8, 1920.

BALEOA HEIGHTS, C. Z., April 8, 1920.

All concerned—In connection with the plan whereby Canal Zone customs inspectors inspect and seal freight shipments of household goods made by employees of The Panama Canal and members of the Army and Navy from the Isthmus to the United States, the freight agent of the Panama Railroad Steamship Line has called attention to the fact that bill of lading and Canal Zone customs declaration covering shipments on Panama Railroad steamers must be presented to Zone customs declaration covering anyments to Panama Railroad steamers must be presented to the customs officials at the pier in order to secure the release of the shipment. The parcels must then be removed from the dock at the expense of the consignee.

The delivery or forwarding of the shipment from the decidency of forwarding of the shipment from the dock may be handled by a forwarding agency. The Hendrickson Trucking and Transfer Com-pany of New York City, which has an office on the pier for the privilege of hauling the goods to freight offices or other destination at reasonable rates will, without further progress the progress. without further charge, procure the necessary customs release and deliver or reship parcels in customs release and deliver or reship parcels in accordance with whatever instructions may be given by the consignee. If it is desired to have the shipment handled by the above-named company, in order to avoid delay, two bills of lading and a customs declaration should be surrendered to the representative of the company on the pier immediately after landing, or in case the employee or member of the Army or Navy does not take passage on the steamer carrying his belongings, the bill of lading and customs declaration should the bill of lading and customs declaration should be forwarded to the transfer company by mail so be forwarded to the transfer company by mail so as to be received prior to the arrival of the freight. All charges should be prepaid to New York, as otherwise there will be charges for customs fees, customs brokerage, and other necessary expenses. When forwarding the above papers to the transfer company the person making shipment should be careful to give full instructions as to the exact disposition he desires made of his shipment.

C. A. McIlvaine, Executive Secretary.

### Appointments-Commissary Managers.

THE PANAMA CANAL, SUPPLY DEPARTMENT, CRISTOBAL, C. Z., April 10, 1920.

MEMORANDUM No. 761-48:

To all concerned—Effective as of April 12, 1920, Mr. F. P. Brugge is appointed Manager Balboa Commissary, and Mr. Henderson C. Smith, Manager Ancon Commissary.

J. J. JACKSON, General Manager, Commissary Division.

### Acting Commissary Managers.

THE PANAMA CANAL, SUPPLY DEPARTMENT

Cristobal, C. Z., April 13, 1920.

Memorandum No. 761-49: To all concerned—Beginning April 12, Mr. Stephen Byrne is assigned to duty as Acting Manager Pedro Miguel commissary, vice Mr. Fred Metzger.

Also, effective as of April 9, Mr. S. L. Bourcy was appointed Acting Manager Camp Bierd commissary, vice Mr. C. A. Jorgensen, on leave. A. W. GOULET,

Acting General Manager, Commissary Division.

### Beef Restrictions.

THE PANAMA CANAL, SUPPLY DEPARTMENT, CRISTOBAL, C. Z., April 9, 1920.

BULLETIN No. 917-3;

To commissary managers—My attention has been called to the fact that some commissary

managers are under the impression that the old regulations restricting the sale of tenderloin steak to the counter are still in effect. These regulations were withdrawn some time ago and it is now in order for solicitors to take orders for this cut.

Please bring this to the attention of your trade.

J. J. JACKSON,

General Manager, Commissary Division.

### Joint Commission.

### Decisions of the Umpire.

In the matter of the consolidated claims of Guil-In the matter of the consolidated claims of Guillernina Dica Via. de Arias and the heirs of Agustin Arias Feraud, for property located on the La Boca Road at the base of Ancon Hill, originally a part of the "Los Poctos" estate. Decision of the Umpire, award No. 215, docket Nos. 2797 and 2798, March 27 1920—An award is hereby made against the United States in the total sum of \$337.47, plus compound interest at the rate of six per centum per annum from December 5, 1912, the date of the depopulation order of the Canal Zone, until payment or tender of payment of this award is

of the depopulation order of the Canal Zone, until payment or tender of payment of this award is made, to be paid as hereinbelow set out:

To Guillermina Diez Vda. de Arias, the sum of \$182, United States currency, plus interest as above indicated, for all right, title and interest which the said Guillermina Diez Vda. de Arias may possess or may have possessed in and to 211 square meters of land located on the La Boca Road, subject of claim docket No. 2797, including any and all damages sustained by her on account of the expropriation of this property by the

any and all damages sustained by left of account of the expropriation of this property by the United States of America.

The sum of \$155.47, United States currency, plus interest as above indicated, representing my valuation of the 221.10 square meters of land my valuation of the 221.10 square meters of land claimed by the heirs of Agustin Arias Feraud, located on the La Boca Road, subject of claim docket No. 2798, is hereby ordered deposited in the District Court of the Canal Zone, Balboa Division, in accordance with the agreement of counsel on both sides, until that court shall have decided the conflict existing as to the ownership of this property.

of this property.
Total, \$337.47.
Done in the National Palace, Panama, March 27, 1920.

(Sgd.) MANUEL WALLS Y MERINO.

In the matter of the claim of the Panama Free-hold Estate Company, Limited, London, for property situated in Ancon known as "El Trapiche." Decision of the Umpire, award No. 216, docket No. 3258, March 27, 1920—An award is hereby made in favor of the Panama Freehold Estate Company, Limited, in the sum of \$15,264, United States currency, for all right, title, and interest which the said Panama Freehold Estate Company, Limited, may possess or may have possessed in and to the property known as "El Trapiche," comprising 38,160 square meters of land, situated in Ancon, subject of claim docket No. 3258, including any and all damages sustained by the above-named claimant on account of the expropriation of this property by the United States of America.

propriation of this property by the United States of America.

This award shall be paid on or before the 27th day of April, 1920, and if payment or tender of payment is not made on or before that date, said award shall thereafter bear interest at the rate of six per centum per annum until paid.

Done in the National Palace, Panama, this 27th day of March, 1920.

(Sgd.) MANUEL WALLS Y MERINO, Umpire.

In the matter of the claim of Josefina Vallarino de Aleman, Jose Maria Aleman, and Adolfo Aleman V., heirs of Adolfo Aleman, deceased, for property known as "La Gloria," situated in the district of Ancon. Decision of the Umpire, award No. 217, docket No. 3257, March 27, 1920—An award is hereby made against the United States in the

total sum of \$377.73, United States currency, in favor of Josefina Vallarino de Aleman, Jose Maria Aleman, and Adolfo Aleman V., for all right, title and interest which the said Josefina Vallarino de Aleman, Jose Maria Aleman, and Adolfo Aleman V., may possess or may have possessed in and to the property known as "La Gloria," comprising 8.2 hectares, situated in the District of Ançon, including the improvements located thereon and any and all damages sustained by the above-named claimants on account of the expropriation of this property by the count of the expropriation of this property by the United States of America, this award to be paid 

\$188.87 To Jose Maria Aleman, one-fourth

To Adolfo Aleman V., one-fourth thereof 94,43

This award shall be paid on or before the 27th day of April, 1920, and if payment or tender of payment is not made on or before that date said ward shall thereafter bear interest at the rate of

six per centum per annum until paid.

Done in the National Palace, Panama, this 27th day of March, 1920.

(Sgd.) MANUEL WALLS Y MERINO, Umpire.

In the matter of the claims of Virginia and Pablo Bosque and the estate of Leonarda F. Solorsano, for property located in the city of Panama, decision of the umpire, rule of dismissal No. 458, docket No. 1788, April 5, 1920—The claim of Virginia and Pablo Bosque, docket No. 1788, and the claim of the estate of Leonarda F. Solorsano, intervenor therein, are hereby dismissed for want of merit. therein, are hereby dismissed for want of merit.

(Sgd.) MANUEL WALLS Y MERINO.

In the matter of the claim of Francisco de la Oss., et al., for properly known as "La Isrca," accision of the umpire, award No. 218, docket No. 1742, April 5, 1929—An award is hereby made against the United States in the sum of \$19,999,98, United States currency, in favor of Francisco de la Ossa, Emilia de la Ossa, Viuda de la Ossa, viuda de Amador, Manuela de la Ossa, viuda de Lewis, Angelica B. de la Ossa, viuda de Jeronimo de la Ossa and the legal representative of the widow of Ricardo de la Ossa, legitimate heirs of Dr. Jose Francisco de la Ossa, for all right, title, and interest the above-mentioned claimants may Dr. Jose Francisco de la Ossa, for all right, title, and interest the above-mentioned claimants may possess or may have possessed in and to the property known as "La Iseca" comprising 21 hectares of land situated between the main line of the Panama Railroad and the branch line to Balboa at the foot of Ancon Hill, near the City of Panama, subject of claim docket No. 1742, this award to include any and all damages sustained by the claimants above named on account of the expropriation of this property by the United States of America, and to be paid as follows:

To Francisco de la Ossa. \$3,333.33 To Maria de la Ossa, vda. de Amador. To Emilia de la Ossa de Lefevre..... 3,333.33 3,333.33 To Manuela de la Ossa, vda. de Lewis. 3,333.33 To Angelica B. de la Ossa, vda. de Jeronimo de la Ossa...
To the legal representative of the widow of Ricardo de la Ossa... 3.333.33

3.333.33

......\$19,999.98

This award shall be paid on or before the 5th day of May, 1920, and if payment or tender of payment is not made on or before that date said award shall thereafter bear interest at the

rate of six per centum per annum until paid.

The question of the p.ivate agreement entered into between Dr. Inocencio Galindo and the Ossa family is a matter to be decided by the claimants themselves.

Done in the National Palace, Panama, April 5, 1920.

(Sgd.) MANUEL WALLS Y MERINO.

Umpire.

In the matter of the claim of Francis Schuber, James B. Schuber, Clementina Schuber Kehrlahn, Alice Schuber Moore, Lottie Aylshury, Harry Wilson, and Daisy Wilson Nay, for the expropriation of 372 hectures of "Manglares," a part of the tract known as "Juan Diac Caballero" located in the District of Ancon. decision of the Umpire, award No. 219, docket No. 2728, April 12, 1920—Taking into consideration the following:

1. The location of the tract in claim;
2. The boundaries of this property as shown in the public deed of October 3, 1908, admitted by counsel for the Government, by which document the claimants herein transferred to the United States a portion of the lands known as "Juan Diaz Caballero;"

3. The fact that the majority of the members of

The fact that the majority of the members of the Commission held that the manglares comprised within the San Lazaro tract were private lands;

4. Award No. 165 handed down by me on October 13, 1917, in the matter of the claim of the heirs of Agustin Ayala for the lands known as San Lazaro:

An award is hereby made against the United States of America in the total sum of \$18,600, United States currency, to be paid to the persons United States currency, to be paid to the persons hereinafter named in the amounts specified, for all right, title, and interest which they may possess or may have possessed in and to 372 hectares of manglares, a portion of the property known as "Juan Diaz Caballero," located in the District of Ancon, subject of claim docket No. 2728, including any and all damages sustained by them on account of the expropriation of this property by the United States of America.

To Francis Schuber, 1/6 of \$18,600,	\$3,100
To James B. Schuber, 1/6 of \$18,600	3,100
To Clementina Schuber Kehrhahn, 1/6	
of \$18,600	3,100
To Alice Schuber Moore, 1/6 of \$18,600	3,100
To Lottie Aylsbury, 1/6 of \$18,600	3,100
To Harry Wilson, 1/12 of \$18,600	1,550
To Daisy Wilson Nay, 1/12 of \$18,600	1,550

Total..... \$18,600

This award shall be paid on or before the 12th day of May, 1920, and if payment or tender of payment is not made on or before that date said award shall thereafter bear interest at the rate of six per centum per annum until paid.

Done in the National Palace, Panama, this 12th day of April, 1920.

(Sgd.) MANUEL WALLS Y MERINO, Umpire.

### Current Net Prices on Coal, Fuel Oil, and Beef.

Coal is being supplied to steamships including warships of all nations, delivered and trimmed in bunkers, at \$13.50 per ton of 2,240 pounds at Cristobal and \$15.50 at Balboa. For ships in transit through the Canal, which are directed to take coal at Balboa, for the convenience of The Panama Canal, \$13.50 per ton at Balboa. For stimulating least the section data for show called dets from plants or ships taking less than carload lots from plants or less than 25 tons from lighters, the price is \$15 per ton at Cristobal, \$17 at Balboa.

Crude fuel oil is delivered to vessels at either Cristobal or Balboa for \$1.50 per barrel of 42

Diesel oil is not sold by The Panama Canal, but may be obtained from private concerns at approximately \$3 per barrel. Cable arrange-ment should be made in advance of arrival of vessel.

The following are current prices on fresh beef sold from the cold storage plant of the Canal. Prices quoted are United States currency, per pound net:

Beef hinds, 19 cents; beef fores, 14 cents; beef ribs, entire set, 20 cents; short loins, 25 cents. This beef is from Colombian cattle-slaughtered on the Isthmus.

March	Paint	all for	Three	Veare.

		INCHES								
Stations.	1920	1919	1919 1918		Years of record.	Rainy days, 1920.				
Pacific section— Balboa Balboa Heights Miraflores	0.35 .09 .02	T T	1.32 1.25 .20	0 62 .62 .38	21 22 12 13	1 1 3 5				
Pedro Miguel. Rio Grande.	1.30	T	.03	.29	13 16	3 5				
Central section— Culebra	.81	T .08	.02	57 .41	30 14	4				
Camacho Empire	.57 .80 .21 1 00	.05	.16 .20 .54	.36 .71 .30	15 36	4 5 6 4				
Gamboa Juan Mina	1 00	.03		.30	10	4				
A!hajuela Vigia	.20	.07	.02	.38	21 12 9	8				
Frijoles Trinidad	.05 .94 .78	.47 .38 .59	.17 .31 .39 1.34	1 83 2.11	13 13	6				
Monte Lirio Atlantic section—					16	10				
Gatun Brazos Brook	.71 .90	.59	.55 .92 .41	1 99 2 02 1 58	14	9				
Colon Porto Bello	1 08	1 18	.41	2 02	51 9	14 12				
Bocas del Toro	1 06	4 28	3 02	5 31	12	9				

### Rainfall from Mar. 1 to Mar. 31, Inclusive.

STATIONS.	Maximum in one day.	Date.	Total.
Pacific section— Balboa Balboa Heights Miratlores Pedro Miguel Rio Grande. Central section— *Culebra* *Camacho Empire Gamboa *Juan Mina Alhajuela *Vigia Darien Trinidad *Monte Lirio Atlantic section— Gatun *Brazos Brook	Ins 0 35 00 02 02 02 .65 .44 .35 .42 .15 .73 .09 .05 .01 .71 .31	25 25 26 26 25 27 25 7 25 9 & 26 7 & 8 28 28	Ins. 0 35 .09 .02 .04 1 .30 .81 .57 .80 .21 1 .00 .20 .22 .04 .78 .71 .90
Colon †Boeas del Toro Porto Bello	.26 .25 .32	26 19 7	1.08 1.06 1.07

^{*}Standard rain gauge-readings at 5 p. m. daily. Automatic rain gauge at unstarred stations-values, midnight to midnight. -readings at 8 a. m. daily.

### Sale of Buildings at Las Cascadas.

†Standard rain gauge

Sale of Buildings at Las Cascadas.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10.30 a. m., April 30, 1920, and then opened, for the purchase of a number of buildings located at Las Cascadas, Canal Zone. Information regarding the numbers and location of buildings and form of proposal may be had upon application to the office of the Chief Quartermaster. Bids will be received on the entire lot or any single building, but all bids must specify the amount bid for each particular house. The Panama Canal reserves the right to reject any or all bids. reserves the right to reject any or all bids.

# MOVEMENTS OF OCEAN VISSEIS.—Continued from page 507.

PORT OF CRISTORAL.—Continued.	*DEPARTURES,	Date, Vessel. Line. For-	April 8
	*ARRIVALS.	Vessel. Line.	April 7         Carrillo.         United Fruit Co.         Santa Marta.           April 8         Caribbean         Panama Rairoad Gattle Industry.         Cartagena.           April 8         Arabian (A)         W. V. N. Powellson         New York and wayports.           April 9         Corning.         Sandard Oil Co.         Tampico.           April 9         Tampico.         Tampico.
		Date.	April 7 April 8 April 8 April 9 April 9

Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

San Francisco.

Gulf Mail Steamship Co.....

J. B. Stetson....

*Other than ships passing through the Canal.

Misdirected Letters.	Grocery Section.
BALBOA HEIGHTS, C. Z., April 6, 1920. The following insufficiently addressed mail has been received in the office of the Director of Posts and may be obtained upon request of the addressee. Such request may be made by telephone, calling No. 182, Balboa:	Candies, Farley's, hard, House Party, assorted, 9½-oz. jar. \$0.59 Chocolates, Park & Tilford, assorted, 2-lb. box. 2.65 Goulash, 18-oz. tin 55 Cigarettes:
Barton, Mrs. Thomas Beck, Miss Florence F. Behrens, Harry Beyerling, Miss Selma Beyerling, Miss Gertrude Chambers Wm. M.  Hepburn, Mrs. Mary N. Kelchner, Mrs. Mary N. Hernandez, A.* Knoop, R. M. LaPerre, Mrs. Mary Chambers Wm. M. McCourt. Miss Irene	Argyropulo No. 5, plain tip, 100s, tin 2.05 Imperial No. 4, plain tip, 100s, tin 1.80 Melachrino No. 4, cork tip, 50s, tin 1.15 Melachrino No. 5, cork tip, 50s, tin 1.10 Melachrino No. 9, plain tip, 100s, tin 1.65
Cross, E. W. Moore, Bethel Cummings, E. C. Pallas, George	Hardware Section.
Davis, Dinnie† Dole, Mrs. Lillian Easton, Mrs. E. R. Garon, Arthur* Gibhs & Co.† Hallifield, Haburt  *Paper. †Special delivery.	Chinaware, Doulton, Hunting and Coaching: Sets, tea, Cecil, E 3804, 3 pieces, set 6.00 Doulton, miscellaneous: Plates, E 8079, 6", ea
Additions to Comm'ssary Stock.	Stoves and accessories:
Suiting:	Bowls, burner with pipes for Florence stoves, ea
Alpaca. Mohair, blue or black. yd. \$2, 50 Gray, yd. \$2,50 Gray, yd. \$3,50 Serge, blue, yd. \$4,10 Serge, blue, yd. \$4,55 Crash, brown cotton, 36", yd. \$4,55 Crash, white cotton, 27", yd. \$5 Towels, Union huck, H. S., 15" x 24", ea \$39	Chimneys, complete for Florence stoves, ea

### COMMISSARY NOTES.

### Sheet Music.

A large shipment of popular sheet music has just been received and distributed to the line commissaries.

### Books.

Detective stories are achieving a wide vogue at present and in response to requests the Commissary Division has added to stock complete sets of Gaboriau's novels. These are now on sale.

Those who are completing sets in Everyman's Library will be glad to know that a new shipment of books has recently been received and distributed to the line stores.

Books received:

"Treland's Case," by Shumas McManus; "Luna Benamer," by Blasco Ibañez; "Tom Sawyer" by Mark Twain; "Collected Poems of Rudyard Kipling."

### Suitings.

Customers will be pleased to learn that a shipment of blue serge, priced at \$4.10 and \$4.55 the yard, has just been received. There has also been distributed a shipment of blue and gray serges and tweeds with self stripes and checks. Another item for which inquiries have been received is cotton and jute suiting at \$1.80 the yard, a new stock of which is now on hand.

### Beef.

The Department of Justice has announced that it intends to begin shortly an intensive educational campaign designed to lower the consumer's meat bill. By stimulating the demand for forequarter beel and other neglected cuts, it is hoped that the bad economy of the uneven demand for the different parts of the beef carcass will be overcome. If patrons buy more freely of the forequarter meats, they can have many more pounds of good meat for much less money than they are getting at the present time.

The Commissary Division has always practiced this policy and maintains a material differential between the prices of hindquarter and forequarter cuts, as

will be indicated by the table below:

Hinaquarter cuts.		Forequart		
Rump roast\$0	20 Chuck ro	ast (3 pounds up	)	\$0.14
Porterhouse roast	27 Chuck st	eak		. 15
Sirloin steak, choice cut	26 Shoulder	steak		17
Porterhouse steak				

Such items as are of interest in the department's campaign will be published from time to time.

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### THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address
The Panama Canal Record, Balboa Heights, Canal Zone, or
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Volume XIII.

Balboa Heights, C. Z., April 21, 1920.

No. 36.

### The "Olockson" Floated and Towed into Inner Harbor.

The steamship *Olockson* was floated on Sunday, April 18, from the bank on which she had been sunk off Changarmi Rock, in the outer harbor of Balboa, to extinguish fire in her cargo of gasoline. In the evening of April 20 she was towed into the inner harbor and moored to dolphins in shallow water near Pier 18, so that the discharge of her cargo may be carried on with less difficulty than was being experienced in the outer harbor.

The sea in the outer harbor has been rough, with wind and a heavy swell that caused the *Olockson* to drag her anchor, and the distance over which the lighters of cargo had to be towed added to the difficulty and expense of discharging her. In the inner harbor conditions will be easier.

The work on the *Olockson* before she was floated was strenuous and dirty. Every man going on the ship became covered in a short time with the crude oil floating up from her tanks, and on account of the necessity for taking advantage of the tides, shifts were from 12 to 16 hours. When the men came off the job to the derrick barge on which they were quartered they would wash out their clothes and hang them up to dry while they slept.

### The "Lady Sybil" Being Finished.

Repairs are to be completed this week to the steamship Lady Sybil of Barbados, which has been at Balboa shops for five weeks for extensive overhaul. This included overhauling the boilers, main engines, auxiliary machinery, and all deck machinery. Considerable work was done on the deck and rails, and the master's quarters were completely refitted. The hull and the interior of all the holds were scaled, cleaned, and painted.

The Lady Sybil belongs to the West India Oil Company and has been employed by it on the West Coast, largely in the handling of gasoline in drums.

### Tolls Per Ton of Cargo.

With a net tonnage of 3,567, United States measurement, the steam-ship *Cajacet*, operated by Chas. Kurz & Co., arrived at Balboa on April 19 carrying a cargo of 9,730 tons of nitrate. She is to go through the Canal after receiving repairs at Balboa shops. Inquiry has been made as to whether this is not an extraordinarily large cargo for such net tonnage, and whether the tolls per ton of cargo would not accordingly be lower than any previous record.

The tolls on the *Cajacet* will be \$4,458.75, equivalent to 46.85 cents per ton of cargo. In The Panama Canal Record of April 4, 1917, was published an article, "The Cost of Tolls per Ton of Cargo Carried," which gave the prorated cost of Canal tolls per ton of cargo carried

on all the ships making the transit of the Canal during the last 6 months of the year 1916 with whole cargoes. A glance at that statement shows that a number of ships made transit with more tolls per net ton and at less cost per ton of cargo carried than the *Cajacet*. The minimum cost per ton for a ship loaded with nitrate, during the period, was 37 cents; the maximum was 85 cents, and the average, 55 cents. Of all the cargoes, the minimum prorated cost of tolls per ton of cargo carried was 32 cents, on a shipload of crude oil.

### Whole Cargo of Lubricating Oil.

The American steamship *Dillwyn*, operated by the Standard Oil Company, arrived at Balboa in the afternoon of April 19 from San Francisco for Paulsboro, N. J., with a cargo of 8,334 tons of lubricating oil.

### A Shipload of Pipes.

A whole cargo of pipes, 3,000 tons, was carried by the steamship *Delisle*, arriving at Cristobal in the evening of April 16, en route from Mobile to Los Angeles and San Francisco. They consisted of sewer. water, and gas pipes.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending April 17, 1920.

				Care	50-
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Caribbean	Panama Railroad Cattle Industry		April 11	Tons.	Tons.
Huasco	Chilean Steamship Line		April 12		1,065
Huallaga	Peruvian Steamship Line		April 13 April 14	7 901	602
BelleplineBalboa	United States Shipping Board Colombian Maritime Co				(*) 330
Jamaica	Pacific Steam Navigation Co		April 14		640
Acajutla	Pacific Steam Navigation Co United Fruit Co				148
CartagoPoint Bonita	Pacific Mail Steamship Line	April 13			19
Puerto Rico	French Line	April 13	April 16	90	345
Gen. W. C. Gorgas Ucavali	Panama Railroad Steamship Line Peruvian Steamship Line			3,312 876	
Manavi	Pacific Steam Navigation Co				
Imperial	Chilean Steamship Line			1,073	
Tillamook	United States Shipping Board United Fruit Co		April 15	2,884 258	524
Pastores	United Fruit Co		April 16	11	33
Caribbean	Panama Railroad Cattle Industry	April 15			
Ancon	Panama Railroad Steamship Line Panama Railroad Steamship Line			5,174 980	
Leon XIII.	Spanish Steamship Line				

^{*} No cargo laded.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Two Weeks Ending April 17, 1920.

				Car	go—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Laura C. Hall. Cauca. West Cawthon. Mehanno. Arcadia J. B. Stetson. Ansaldo V. Point Bonita. Ethan Allen. Manavi. Matinicock. Jamaica. Balboa Koyo Maru.	Pacific Metals Corporation. Pacific Steam Navigation Co. United States Shipping Board United States Shipping Board United States Shipping Board United States Shipping Board Gulf Mail Steamship Co. National Navigation Society Pacific Mail Steamship Co. United States Shipping Board Pacific Steam Navigation Co. Standard Oil Co. Pacific Steam Navigation Co. Colombia Maritime Co. Toyo Kisen Kaisha.	April 10	April 8. April 10. April 11. April 13. April 13. April 13. April 14. April 14. April 14.	600 768 5,050 355 56 363 11,831 1 11,000	105 25

### Notice to Mariners.—Panama Canal Front Range Lights Changed from Flashing to Fixed.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., April 14, 1920.

CIRCULAR No. 643-74.

On April 13, 1920, the lights in towers Nos. 3, 5, 7, 9, 12, 14, 16, 18, and 21, Gatun Lake Section, were changed from flashing to fixed. All front range towers now exhibit fixed white lights.

(H. O. Chart No. 5000.)

CHESTER HARDING, Governor.

### Soil Temperatures in the Canal Zone.

A record of soil temperature was kept at Balboa Heights during the year 1919, with water thermograph bulb buried in the ground 5 inches below a grass-covered surface, the automatic record being checked daily at 8 a.m. by eye readings of a soil thermometer buried alongside the thermograph bulb. In character the soil was an artificial fill consisting of a mixture of clay and gravel, well packed.

In this climate soil temperatures are affected by the following

(1) Position of the sun in the sky, or the angle of incidence of solar rays.

(2) Cloudiness and humidity, or the degree of obstruction and absorption of solar rays.

(3) Soil covering.

(4) Moisture content of soil.

Average soil temperatures usually are highest near the times when the sun is in the zenith and its rays descend vertically (in April and August), and they are usually lowest in December and January, when the sun's rays fall most obliquely upon the earth's surface.

Heavy clouds serve as a blanket over the earth, obstructing solar radiation and preventing the excessive daytime heating of the soil.

High humidity has a similar effect, though less pronounced.

A grassy covering tends to lessen the daytime heating of the soil. Excessive moisture tends, also, to lower the daytime temperature of the soil and to retard its night cooling. It follows that the diurnal range of soil temperature is much greater in the dry season than in the rainy season, when more uniform soil temperatures prevail, due to the combined influences of heavy cloudiness, excessive moisture content and grassy covering of the soil.

Soil temperatures average higher than the air temperatures during nearly all of the year. The average soil temperature in the year 1919 was 81.5° F.; air, 79° F. The maximum soil temperature observed during the year 1919 was 95° F. on April 11, and the minimum was 73° F. on January 6, compared with maximum and minimum air temperatures of 94° F. and 67° F., respectively.

Solar radiation penetrates the earth's crust very slowly and at a depth of a few feet soil temperatures in the tropics are nearly constant, diurnal and seasonal variations being very small or disappearing

entirely.

The sun's heat penetrates the soil so slowly that in the temperate zone it requires approximately 6 months, or until the following winter, for summer heat to penetrate to a depth of 35 or 40 feet, at which depth earth temperatures are actually slightly higher in the winter than in summer.

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight April 17, 1920.

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### Supplement No. 7 to Tariff No. 3.

THE PANAMA CANAL, PANAMA RAILROAD COMPANY.

BALBOA HEIGHTS, C. Z., April 12, 1920.

The following amendment is made to Tariff No. 3, Schedule of Rates for Supplies and Services Furnished to Shipping and Allied Interests at the Panama Canal:

ITEM 3—PILOTAGE. Effective May 1, 1920.

 Charges for port pilotage are based upon maximum draft; rates per foot, or fraction thereof, provided such fraction equals or exceeds 6 inches.... \$2.00

CHESTER HARDING, Governor, The Panama Canal. President, Panama Raili oad Company.

# Present Permits Not Affected by New Executive Order on Carrying and Keeping Arms.

The Chief of the Police and Fire Division advises that the Executive Order No. 3243, dated March 6, referring to the carrying and keeping of arms, published in The Panama Canal Record of April 7, does not require any change in the permits already granted for hunting, or to the members of gun or pistol clubs, and that the permits previously in effect are not affected by the order. This is stated in Section 5 of the order. The new order does not authorize carrying of arms by persons under 15 years of age. The purpose of the order was to establish closer restrictions on the keeping of arms in the Canal Zone and to give the Governor greater powers in fixing regulations and prescribing the areas and conditions for hunting. Regulations based on the Executive Order will be issued by the Governor in the near future.

### Addition to Hotel Aspinwall Launch Service.

The launch service between Balboa and Taboga Island is to be supplemented, beginning this week, by the use of the gasoline tug *Coco Solo*, which will be operated for the present on Saturdays, Sundays, and holidays, to handle the extra passengers of those days. The *Coco Solo* is a launch of 40 gross tons, 60 feet in length by 16 feet beam and is licensed to carry 75 passengers. She is provided with a saloon amidships, with a toilet room, and with seats on the deck and on top of the cabin, with railing protection and awnings. Her speed is 11 to 12 knots, from which the time for a trip to Taboga is estimated at an hour. For the present the launch *Taboguilla* will be continued in the service.

### Concrete Railroad Station at New Gatun.

A new railroad station is to be constructed at New Gatun, north of Gatun. It is to be built on the plans of the present station at Corozal, of reinforced concrete, and the estimated cost is approximately \$30,000. New Gatun was a station on the railroad during the period of the construction of Gatun Locks, but was subsequently abandoned. The reestablishment of a station there is on account of the new brigade post, Fort Davis, now under construction to the northeast of the old village of New Gatun.

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at

Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Board of Civil Service Examiners, Balboa Heights (telephone 286):

Analyst (male and female); \$1,200 to \$1,500 a year; No. 230; May 11, 1920; form 1312; age, 18 years but not 40 years.

Artist-illustrator (male and female); \$1,200 a year; No. 211; May 5, 1920; form 1312; age, under 50 years.

Assistant appraisal engineer (male and female); \$1,800 to \$3,300 a year; No. 216; August 2, 1920; form 1312; age. 25 years but not 55 years.†

Appraisal engineer (male and female); \$3,600 to \$4,800 a year; No. 216; August 2, 1920; form 1312;

age. 25 years but not 55 years.†

Director of home education (male and female); \$2,000 to \$2,500 a year; No. 233; May 11, 1920;

Director of home education (male and female); \$2,000 to \$2,500 a year; No. 233; May 11, 1920; form 2118; age, 21 years and over.*

Extension specialist in canning and drying (male and female); \$2,200 to \$2,700 a year; No. 218; May 4, 1920; form 2118; age, 21 years but not 55 years.*

Civilian assistant (male and female); \$8 a day: No. 223; May 4, 1920; form 1312; age, 25 years.*

Expert stenographer and typist. The United States Civil Service Commission announces the cancellation of this examination, No. 206, scheduled to be held on April 27, 1920.

Junior engineer, grade 1; and junior architect (male and female); No. 345-amended, supplemental. The United States Civil Service Commission calls attention to the fact that for the positions of junior engineer, grade 1; and junior architect, in the Interstate Commerce Commission, in connection with the valuation of the property of common carriers, the maximum entrance salary has been increased from valuation of the property of common carriers, the maximum entrance salary has been increased from \$1,680 to \$1,800 a year.

Reconstruction aide: No. 75-amendment. The United States Civil Service Commission announces

the elimination of age limits for the continuous open competitive nonassembled examination for recon-

struction aide.

Field superintendent in insect control (male and female); \$1,800 to \$2,400 a year; May 11, 1920; form 2118; age, under 50 years.

able age limits:

Foreman automobile mechanic (male and female); \$2,100 a year; form 1312; age, 25 years.†
Fuel engineer (male and female); \$4,200 a year; No. 141-amended; form 2118; age, within reasonle age limits; April 27, 1920.*
Assistant fuel engineer (male and female); \$1,620 to \$2.160 a year; form 2118; age, under 36 years; April 27, 1920,* Assistant mechanical engineer (experimental ordnance); No. 210; \$2,000 a year (male and female);

form 1312; age, 21 years and over; April 27, 1920.* Glassworker (male and female); \$1,200 to \$1,680 a year; No. 226; May 11, 1920; form 304; age, years and over.*

Greek translator (male and female); \$1,200 to \$1,400 a year; No. 219; May 5, 1920; form 304; age, 18 years and over.

Junior economist (farm management) (male and female); \$1,800 to \$2,200 a year; No. 212; May 5, 1920; form 1312; age. 21 years but not 45 years.

Junior zoologist (male and female); \$1,500 a year; May 19, 1920; form 1312; age, under 45 years. Laboratory aid, motion-picture laboratory (male and female); No. 229; \$900 a year; May 5, 1920; form 304; age, 17 years but not 45 years.

Logging engineer (male and female); \$2,400 to \$3,000 a year; May 11, 1920; form 1312; agc, 25 years but not 55 years.*

Map printer (male and female); \$900 to \$1,200 a year; May 4, 1920; form 1800; No. 237; age, 20 years and over.

Master shipfitter (male and female); \$9.92 a day; May 11, 1920; No. 241; form 1312; age, 30 years. • Metallurgist (male and female); \$7.60 a day; No. 231; May 11, 1920; form 2118; age, under 40 Mining accountant (male and female); \$3,000 to \$4,500 a year; No. 232; May 11, 1920; form 2218;

age, under 60 years.*

Oil gauger (male and female); \$1,200 to \$1,500 a year; May 11, 1920; No. 238; form 1312; age, 20 years and over.*

Plumber's helper (male and female); \$1,000 a year; May 11, 1920; No. 245; form 1800; age, 18

years and over.*

Scientific assistant, Lighthouse Service (male and female); \$2,400 a year and \$1,500 a year; May 18, 1920; form 1312; age, 18 years but not 35 years.*

Senior dairy herdsman (male and female); \$1,500 a year; May 11, 1920; form 1312; No. 246; age, under 45 years.*

age, under 45 years, "Senior structural engineer, grade 1 (male and female); \$3,000 to \$4,000 a year; No. 504-amended; form 1312; age, under 60 years,†
Senior structural engineer, grade 2 (male and female); \$1,800 to \$2,700 a year; No. 504-amended; form 1312; age, under 60 years,†
Senior mechanical engineer, grade 2 (male and female); \$1,800 to \$2,700 a year; No. 504-amended; form 1312; age, under 60 years, †

form 1312; age, under 60 years. Senior electrical engineer, grade 2 (male and female); \$1,800 to \$2,700 a year;. No. 504-amended;

form 1312; age, under 60 years.† Senior dairy herdsman (male and female); \$1,500 a year; No. 246; form 1312; May 11, 1920; age, under 45 years.*

No. 574-amended, supplemental. Senior structural engineer, grade 2, entrance salary increased from

1,800 to \$1,920 a year.†
No. 504-amended, supplemental. Senior mechanical engineer, grade 2, entrance salary increased from

\$1,800 to \$1,920 a year.†
No. 504-amended, supplemental. Senior electrical engineer, grade 2, entrance salary increased from

No. 504-amended, supplemental. Senior electrical constitutions of \$2,700 a year, and in addition, appointees at annual compensation of \$2,500 or less, whose services are satisfactory may be allowed the temporary increase granted by Congress of \$20 a month.

The United States Civil Service Commission announces the cancellation of announcement No. 2-amended, of examinations for laboratory assistant under the Navy Department on April 28-29, June 9-10, and July 21-22, 1920, and that this examination will not be held on those dates.

No. 173-supplemental. The United States Civil Service Commission announces the cancellation of announcement No. 173.

Structural steel draftsman and designer (male and female); \$2,400 a year; No. 194; May 11, 1920;

form 1312; age, 26 years but not 45 years.*
Superintendent of operations (male and female); \$2,500 to \$3,500 a year; May 18, 1920; form 1312; age, 21 years and over.*

Surveillance inspector (male and female); \$1,600 to \$2,400 a year; No. 225; May 11, 1920; form

1312; age, 21 years.*

Teacher of stenography (male and female); \$1,200 to \$1,500 a year; Philippine Service; No. 220; May 11, 1920; form B. I. A. 2; age (females), 25 years but not 40 years; (males), 21 years but not 40

years.
Telegraph operator (male and female); \$900 to \$1,600 a year; No. 215; April 28, June 23, and August 18, 1920; forms 304 and 1140; age, 18 years and over.
Topographic draftsman (male and female); \$1,500 to \$1,880 a year; No. 234; August 2, 1920; form

112; age, 21 years and over.*

Transitman (male and female); \$100 to \$125 a month with subsistence; No. 236; May 5, 1920; form 112; age, 20 years but not 40 years.

The Civil Service Commission announces that both men and women who are citizens of the United States, and meet the requirements, may enter the continuous, nonassembled, open competitive examina-States, and meet the requirements, may enter the continuous, nonassembled, open competitive examinations listed below. Appointing officers reserve the right to specify the sex desired in requesting certification of eligibles. Detailed information respecting the examinations may be had from the bulletins posted in various public places, from The Panama Canal Record, or by conference with the Secretary of the Local Civil Service Board:

Nos. 49. 123, 237, 278, 359 (amended), 403, 433, 504 (amended), 654, 647, 526, 470, 462 (amended), 427, 408, 420, 375, 372 (amended), 328 (amended), 231 (amended), 142 (amended), 838, 1805 (amended), 143 (amended), 239, 1492 (amended).

No. 49; senior land appraiser; \$1,800 to \$2,700 a year; junior land appraiser; \$900 to \$1,500 a year; Interstate Commerce Commission.

No. 123; passenger rate clerk; \$1,200 to \$1,600 a year; freight rate clerk, \$1,200 to \$1,600 a year;

different branches of the service. No. 237; plant quarentine inspector; \$1,200 to \$2,500 a year; Federal Horticultural Board, Depart-

ment of Agriculture.

No. 278; catalytical chemist; \$3,000 to \$4,000; assistant catalytical chemist; \$2,000 to \$3,000 a year; junior catalytical chemist; \$1,600 to \$2,000 a year; Ordnance Department at Large.

No. 359-amended; assistant instructor, motor transport training school, \$1,800 to \$2,400 a year;

motor transport corps.

No. 403; junior electrical engineer, \$1,080 to \$1,200 a year; Bureau of Mines No. 433; training officer, \$1,400 to \$1,200 a year; Buteau of Milles, No. 433; training officer, \$2,400 to \$3,000; training assistant, \$1,500 to \$2,400; placement officer, \$2,400 to \$3,000; placement assistant, \$1,500 to \$2,400; district medical efficer, \$1,800 to \$3,600; assistant medical officer, \$1,800 to \$2,750; Federal Board for Vocational Education. No. 504-amended; senior structural engineer, grade 1, \$3,000 to \$4,000; senior structural engineer, grade 2, \$1,800 to \$2,700; Interstate Commerce Commission.

Commission.

No. 654; electrican's helper; \$720. Departmental Service, Washington, D. C. No. 647-amended; ceramic assistant, \$1,200 to \$1,500; Bureau of Standards. No. 526; agriculturist for reclamation projects, \$1,800 to \$2,400 a year; Bureau of Plant Industry. No. 470; junior civil engineer; \$1,500 to \$1,800 a year; surveyor, \$840 to \$1,500 a year; Engineer

Department at Large. No. 462-amended; bookbinder, 75 cents an hour; pressman, 75 cents an hour; electrotyper-finisher, 75 cents an hour; electrotyper-molder, 75 cents an hour; stereotyper, 75 cents an hour; Government Printing Office, Washington, D. C.

No. 427-amended; examiner of accounts, \$1,800 to \$3,000; Interstate Commerce Commission. No. 408; computer, Coast and Geodetic Survey, \$1,200 a year.
No. 420; mechanical laboratorian, \$1,000 to \$1,400; electrical laboratorian, \$1,000 to \$1,400 a year;

different branches of the service. No. 375-amended; hydrographic and topographic draftsman; \$900; Coast and Geodetic Survey.

No. 372-amended; associate engineer, \$2,000 to \$2,800; assistant engineer, \$1,400 to \$1,800 a year; Bureau of Standards.

No. 328; surveyor-draftsman, \$1,200 to \$1,500 a year; Forest Service.

No. 231-amended; electrician, \$840 to \$1,200 a year; elevator conductor, \$720 to \$900 a year; general mechanic, \$720 to \$1,000 a year; steam engineer, \$600 to \$1,200 a year or over; Departmental and Indian services.

No. 142-amended; aid, \$1,000 to \$1,100 a year; Coast and Geodetic Survey.

No. 838; nautical expert, \$1,000 a year; Hydrographic Office.
No. 1805-amended; machinist, \$1,200 to \$1,800 a year; toolmaker, \$1,200 to \$1,800 a year; Departmental Service, Washington, D. C.

No. 2113-amended; special field agent in entomology; \$1,200 to \$2,000 a year; Bureau of Entomology.

No. 2239; laboratory aid, \$4 per diem; Navy Yard or other service.

No. 1492-amended; associate physicist qualified in physical metallurgy, \$2,000 to \$2,800 a year; Bureau of Standards.

‡Physician, Panama Canal Service (male and female); \$200 a month; No. 15-amended; May 5 and July 7, 1920; form 1312; age, 22 years but not 31 years.

Expert driller (male and female); \$3,000 to \$3,600 a year; No. 162-amended; May 11, 1920; form 2118; age, 25 years but not 45 years.*

Assistant engineer (male and female); \$1,500 to \$2,000 a year; August 2, 1920; form 1312; age, 20

years but not 35 years. Junior engineer (male and female); \$1,200 to \$1,500 a year; August 2, 1920; form 1312; age, 20

years but not 35 years.* Market milk specialist (male and female); \$2,000 to \$3,000 a year; May 25, 1920; form 2118; age.

under 45 years.* Assistant market milk specialist (male and female); \$1,500 to \$1,980 a year; May 25, 1920; form

2118; age, under 45 years.* Highway economist (male and female); \$1,800 to \$3,000 a year; May 25, 1920; form 2118; age.

under 45 years.* Assistant observer, Weather Bureau (male and female); \$1,080 a year; May 19, 1920; form 304: age, 18 years but not 35 years.

Gas expert (male and female); \$3,600 a year; May 25, 1920; form 1312; age, within reasonable age

Law clerk and typist (male and female); \$1,400 to \$1,740 a year; May 25, July 27, and September

28, 1920; form 304; age, within reasonable limits.

Scientific assistant in library science (male and female); \$1,320 to \$1,620 a year; May 19, 1920: orm 1312; age, 20 years and over.

Supervising metallurgist (male and female); \$4,000 to \$5,000 a year; May 25, 1920; form 2118; age, under 50 years.*

In the announcement of the examination for postal clerk, to be held at Balboa Heights, C. Z., on April 25, 1920, the entrance salary has been changed to \$125 a month.

Nonassembled. Applications will be received at any time until further notice.

\$Since receipt of announcement for physician (Panama Canal Service); No. 15-amended, the rates have been adjusted, making the entrance rate \$225. Promotions may be made to \$250, \$275, \$300, and \$340 a month and to higher rates for special positions.

### Local Civil Service Examinations.

The following examinations for the Panama Canal Service will be held at Balbos Heights, Canal Zone, on the following dates:

Clerk and postal clerk, April 25, 1920.
Stenographer and typist, May 2, 1920.
Usual entrance salaries are, Clerk and typist, \$100 to \$127 a month. Postal clerk, \$104 to \$125 a month. Stenographer and typist, \$116 to \$137 a month.
Full information in regard to the scope and character of examinations is contained in leaflets, forms 2203 and 2206, copies of which, including sample questions, may be obtained from the Secretary, Board of Civil Service Examiners, Room 244, Administration Building, Balboa Heights, Canal Zone, telephone Balboa 286.

Applicants for the clerk examination must take at least one optional subject in addition to the regular basis subjects. The optional subjects are typewriting, bookkeeping, general business training and experience and timekeeping training and experience. If the third optional is taken three letters of recommendation from former or present employers, written on a business letterhead and signed by the

persons recommending the applicants, should accompany the application.

Applicants for the Postal Clerk examination must have had one year's experience in the United States or Canal Zone post offices or as postmaster or as Navv mail clerk, and must be familiar with the receipt, distribution, and dispatch of mail matter, the issuance of money orders, registration of mail and the preparation of various reports required of postmasters

Applicants must have reached their 18th but not their 45th birthday on the date of the examination must be citizens of the United States, physically sound and in good health.

Applicants must submit to the examiner on the date of the examination their photographs taken within two years, securely pasted on the admission card which will be sent to them after their applications have been filed and the questions have been received from the United States.

Applicants for the Clerk examination should state on the outside cover and also in answer to question

Applicants for the Clerk examination should state on the outside cover and asia in answer to question No. 1 the optional subject or subjects desired in addition to the name of the examination.

In answer to question No. 4 applicants must show residence in some State or territory in the United States from the time of taking their residence therein to April, 1920, a ruling having been made by the Civil Service Commission that those temporarily employed on the Canal Zone retain their legal residence in the last State in which they resided prior to coming to the Isthmus.

Applicants Two No. 1312 must be filled out, including the medical certificate but excluding the County Officer's Certificate, and should be filed promptly with the Board of Civil Service Examiners

Balboa Heights. Canal Zone.

### Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by-	Date of death
Edgehill Taitt. Henrique Bonilla David Boyce Joseph Brown Walter Davis. Inez Dominguez. Antonio Eru (Corud). William Gunter. Isador Guerra Augustine Morsles. Aaron Naterra. Henry F. Newell. Jose Sanchez. Joseph Ford Romulo Roman. Wilton Heywood Augusto Bolanos (Balano).	44973 39260 20986 24101 48034 41894 42802 43291 49283 40558 2898 40468 29908 29102 42670	Panama. United States. Panama. Barbados. Colombia. Trinidad.	Panama Colon Panama Colon Camp Bierd. Farfan Red Tank Mandingo Panama Ancon Panama Colon Colon	Mun. Eng. Div. Cattle Industry Mun. Eng. Div. Mun. Eng. Div	April 5, 1920. April 5, 1920. April 7, 1920. April 8, 1920. April 1, 1920. April 2, 1920. April 2, 1920. April 3, 1920. April 3, 1920. March 16, 1920. March 16, 1920.
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### Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

Mails for shipa passing through the Canal or touching at either of the terminal poits should be addressed to "Cristobal, Canal Zone,"

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

^{*}Nonassembled. Date given for nonassembled examination is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

### Official Circulars.

### Inspection of Boilers.

THE PANAMA CANAL. EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., April 12, 1920.

To all concerned—Attention is invited to the fact that the heads of departments and divisions are, in many instances, failing to be guided by the monthly notices habitually forwarded to them by the Board of Local Inspectors of the dates when boilers under their respective jurisdictions must be made ready for inspection provided for in paragraph 71 of Circular 644, in order that the provisions of paragraph 23 of the same circular may be complied with. may be complied with.

The annual inspection of boilers and appurtenances of steam vessels throws around human life and property a safeguard which it is deemed wise to preserve, and compliance by all concerned with the letter and spirit of the above-referenced regulations is therefore imperative.

In this connection, attention is invited to the further fact that if departments and divisions concerned do not furnish the Board of Local Inspectors prompt written notice of every change in status of every steam boiler under their respective jurisdictions, the Board will, at least in many instances, be unable to compile correct monthly lists of boilers due for inspection and

It is further directed that in every instance in which it is found impracticable for the head of a department or division to comply with the Board's request for notification of the date and hour in the current month when, and the place where, any boiler under his jurisdiction is desired inspected and tested, he promptly notify the Board, in writing, the cause of his inability to comply, in order that the Board may be in position to advise me whether or not postponement of inspection and test is justifiable.

CHESTER HARDING. It is further directed that in every instance in

CHESTER HARDING, Governor.

### Rates for Service of Cranes.

THE PANAMA CANAL, PANAMA RAILROAD COMPANY, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., April 10, 1920. CIRCULAR No. 692-8 (superseding Circular No.

692-7): Effective April 15, 1920, the following rates will

be charged between departments and divisions of The Panama Canal and Panama Railroad, and other branches of the U. S. Government, for the service of cranes:

1. Locomotive cranes: With crew, including engineer, fire-man, groundmen, fuel, lubricants, and repairs: above.

for one hour.

CHESTER HARDING, Governor, The Panama Canal. President, Panama Railroad Company

### Appointment.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., April 15, 1920.

CIRCULAR No. 661-85:

Effective this date, Capt. Earl P. Jessop, U. S. N., is appointed Marine Superintendent, and Chairman of the Board of Admeasurement, vice Capt. Leonard R. Sargent, U. S. N., relieved from duty with The Panama Canal.

CHESTER HARDING. Governor.

### Acting Chief Quartermaster.

THE PANAMA CANAL,
EXECUTIVE OFFICE,
BALBOA HEIGHTS, C. Z., April 14, 1920.

All concerned—Effective April 15, 1920, and
continuing during the absence of Mr. R. K.
Morris on leave, Mr. Roy R. Watson is placed in
charge of the Supply Department as Acting Chief
Ouartermaster. Quartermaster.

CHESTER HARDING, Governor.

### Jury List.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., April 19, 1920 HEADS OF DEPARTMENTS AND DIVISIONS:

The undersigned, having been appointed by Judge John W. Hanan of the United States District Court, for the Canal Zone, as Jury Commissioners for the ensuing year, and by him directed to secure a jury list of all the employees on the Canal Zone;

Therefore, you are hereby directed to furnish this Commission with a list of all white Americans on the gold roll, who are 21 years of age or cans on the gold foll, who are It years of age of over, showing opposite their names the town in which they reside, in order that this Commission can determine whether they reside north or south of the Chagres River.

As it is necessary that the jury list be secured at once, you will give this matter your prompt

and careful attention.

Forward all lists to W. W. Belcher, Box 255.

Balboa Heights.

B. C. Poole, W. W. Belcher, Jury Commissioners

Approved:
C. A. McIlvaine,
Executive Secretary.

### Commissary Selling Hours.

THE PANAMA CANAL. SUPPLY DEPARTMENT CRISTOBAL, C. Z., April 17, 1920.

BULLETIN No. 767-7:

To all concerned—The selling hours at Ancon market and Camp Bierd commissary will be as follows: effective May 1, 1920:

8.00 a. m. to 12.00 m.
2.30 p. m. to 5.30 p. m.

Please give this memorandum publicity.

A. W. GOULET, Acting General Manager. Commissary Division.

### Postal Address of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

### Cable Address of The Panama Canal.

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

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Hours 8

Canal

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ships

than Other

### Sale of Buildings at Las Cascadas.

Sale of Buildings at Las Cascadas.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balbos Heights, C. Z., up to 10.30 a. m., April 30, 1920, and then opened, for the purchase of a number of buildings located at Las Cascadas, Canal Zone. Information regarding the numbers and location of buildings and form of proposal may be had upon application to the office of the Chief Quartermaster. Bids will be received on the entire lot or any single building, but all bids must specify the amount bid for each particular house. The Panama Canal reserves the right to reject any or all bids. reserves the right to reject any or all bids.

### Misdirected Letters.

BALBOA HEIGHTS, C. Z., April 17, 1920 The following insufficiently addressed mail has been received in the office of the Director of Posts and may be obtained upon request of the addressee. Such request may be made by telephone, calling No. 182, Balboa:
Aichholz, Mrs. Sadie C. Lasas, Bill D. Alforeno, Miss Elena C. Levi, Franklin de

Reyna, Luis C

Zelenka, B.

Reyna, Luis C.
Schumacher, Clinton*
Slimmer, Kelsie
Smikler, Jack
Smith, Edward L.
Stevens, Jack
Steward, Miss Dorothy
M.
Zelenko, P.

Levi, Frankin Long, Theo. McCann, Marion V. Marquard, J.* Nelson, Mrs. John Olsen, Mrs. Olief Pennington, Robert Reardon, Maurice F.

de Ambuhl, Miss C. Ashly, Cecil Bramhora, Miss Erna* Brockett, Ben H. Carr, Mrs. J. C.* Carr, Mrs. J. C.* Coman, James B. Detrick, Mrs. L. H. Duffy, J. M. Hallin, F. W. Hallin, T. W.† Heath, Josiah Jacobs, Thomas Adol-phus

phus Jarnacki, Charls Kennan, Master Paul Larshbaugh, Mrs. Margret

*Card. † Newspapers.

# MOVEMENTS OF

			PORT OF CRISTORAL.—Continued.	AL.—Continued.			
						*DEPARTURES.	
		ARRIVALS,					5
Date.	Vessel.	Line.	From-	Date.	Vessel.	Line.	For—
April 15.	Santa Marta	United Fruit Co. United States Shipping Board	New York and Jamaica. Norfolk.	April 16	Puerto Rico	New York and Jamaica. April 16. Louisa Polleys (9). A.N. Bryan. Colo	Puerto Colombia. Colon.
April 15. April 16.		Farama Railroad Cattle Industry Cardagera. Panama Railroad Steamship Line. New York. Spanish Steamship Line. Barcelona and wayports. Penama Policoal Steamship Line New York.	New York.  Bareelona and wayports, New York.				
april 17	3	t anama hambaan arcamana musa	PORT OF	PORT OF BALBOA.			
April 13	Juan Diez (c).  De Lesseps (a).  Ashland County	American Trade Developing Co Panama. American Trade Developing Co Panama Bay. United States Shipping Board Portland.	Panama. Panama Bay. Portland.	April 11 April 14	April 11 J. B. Stetson April 14 De Lesseps (a) April 15 Ashland County	Gulf Mail Steamship Co San Francisco Pansuna American Timber Corp Pansuna Bay. United States Shipping Board Antofagasta.	San Francisco. Panama Bay. Antofagasta.

### Sale of Gasoline Motor Boat Engine.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10.30 a. m., May 5, 1920, and then opened, for the purchase of a gasoline motor boat engine, propeller, shaft, clutch, and other ports. engine, propeller, shaft, clutch, and other parts, on hand at Mount Hope stores. Description and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any

### Current Net Prices on Coal, Fuel Oil, and Beef.

Coal is being supplied to steamships including Coal is being supplied to steamships including warships of all nations, delivered and trimmed in bunkers, at \$13.50 per ton of 2,240 pounds at Cristobal and \$15.50 at Balboa. For ships in transit through the Canal, which are directed to take coal at Balboa, for the convenience of The Panama Canal, \$13.50 per ton at Balboa. For ships taking less than car load lots from plants or less than 25 tons from lighters, the price is \$15 per ton at Cristobal, \$17 at Balboa.

Crude fuel oil is delivered to vessels at either Cristobal or Balboa for \$2.00 per barrel of 42

Diesel oil is not sold by The Panama Canal, but may be obtained from private concerns at approximately \$3 per barrel. Cable arrangements should be made in advance of arrival of

The following are current prices on fresh beet sold from the cold storage plant of the Canal. Prices quoted are United States currency, per pound net:

Beef hinds, 19 cents; beef fores, 14 cents:

Beef hinds, 19 cents; beef fores, 14 cents; beef ribs, entire set, 20 cents; short loins, 25 cents. This beef is from Colombian cattle laughtered on the Isthmus.

### Hotel Aspinwall Launch Schedule.

Following is the schedule of launch service maintained by the Supply Department between Balboa and the Hotel Aspinwall on Taboga Island:

Daily.	
Leave Port Captain's boat landing, near dock 19	10.00 a. m.
Leave Taboga.	8.00 a. m.
Sundays and Holidays.	
Leave dock 19, Balboa	10.00 a. m.
Leave Taboga returning	11.30 a. m.
Leave dock 19, Balboa	4.30 p. m.
Leave Taboga returning	6.00 p. m.
Saturdays and days preceding holidays.	
Leave dock 19, Balboa	10.00 a. m.
Leave Taboga returning	11.30 a. m.
Leave dock 19, Balboa	6 00 p. m.
Returning from Taboga the following day	8.00 a. m.
T 1 25 contains an annual contains 60 contains	abildren of

Fares (each way)—Employees, 35 cents; nonemployees, 60 cents; children of employees over 6 and under 12 years old, 25 cents; of nonemployees, 40 cents.

Hotel patrons desiring to send trunks should arrange to have them delivered at the launch landing by 9.30 a. m., addressed to themselves, care of Hotel Aspinwall. Freight will be transported on the a. m. trip on Mondays, Thursdays, and Saturdays. For further information address Manager, Hotel Aspinwall, Taboga, via Balboa. C. Z.

### Schedule of Official Jitney Service.

Following is the schedule of the official jitney plying between Balboa shops and the Ancon police station, carrying employees in the conduct of official business, upon presentation of passes issued by the Chief Quartermaster or of the "special pass" issued by the Governor:

	FROM ANCON POLICE STATION TO BALBOA SHOPS.
Police Station	Leave on the hour and half hour.
Administration Ruilding	Leave 7 minutes and 37 minutes after the hour.
Polhoo Commissory	Leave 10 minutes and 40 minutes after the nour.
Balboa shops	Arrive 15 minutes and 45 minutes after the hour.
Carbon Moperator	FROM BALBOA SHOPS TO ANCON POLICE STATION.
Rathoa Shops	Leave 15 minutes and 45 minutes after the hour.
Dort Contain's Office	leave 18 minutes and 45 minutes after the nour.
Ralboa Commissary	Leave 20 minutes and 50 minutes after the nour
Administration Building	Leave 25 minutes and 55 minutes after the hour.
Ancon Police Station	Arrive on the hour and half hour

### Rates at Hotel Aspinwall, Taboga.

The following are the current rates at the Aspinwall:	
Employees: Dinner, lodging, and breakfast	\$2.00
Employeesper day	2.75
Children under 12 years of ageper day	1.25
Servants of employeesper day	1.50
Employees for stay of 7 daysper day.	2.00
Reduction of 10 per cent for employees on above rates for stay of 30 days. Further reduction of 10 per cent for families of four or more.	
Nonemployeesper day	3.50
Children of nonemployees	1.50
Servants of nonemployeesper day	1.75
( Breakfast	1.00
Meals without room	1.25
Dinner	1.25

### COMMISSARY NOTE.

### Books.

Books received:

[&]quot;Ireland's Fight for Freedom," by George Creel; "Story of a Lover," Anonymous; "Free Air," by Sinclair Lewis; "Four Horsemen of the Apocalypse," by Blasco Ibañez; "Great Impersonation." by E. Phillips Oppenheim; "Herself," and "Himself," by Dr. E. B. Lowry.

# THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address
 The Panama Canal Record, Balboa Heights, Canal Zone, or
 The Panama Canal, Washington, D. C.
 Entered as second-class matter February 6, 1918, at the Post Office at Cristobal, C. Z., under the Act of March 3, 1879.

Volume XIII.

Balboa Heights, C. Z., April 28, 1920.

No. 37.

### Coal Storage.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., April 7, 1920.

CIRCULAR No. 704-3:

- 1. Circular No. 703, of July 30, 1915, announced the policy of The Panama Canal, as approved by the Secretary of War, with regard to the establishment of private coal and fuel oil depots on the Isthmus for the supply of shipping passing through the Panama Canal.
- 2. Pursuant thereto private fuel oil depots have been established and are in operation. Similar action has not, however, been effected in connection with the storage of coal.
- 3. Experience to date is now accepted as demonstrating the necessity of reversing previous policy with regard to the establishment of private coal deposits. As indicated in Circular No. 703, private wharfage and private utilities for the handling of fuel have, from the first, been recognized as undesirable. Their establishment has not, at any time, been contemplated. So far as concerns fuel oil, the use of existing Government utilities in common connection with both Government and private storage has proved practicable, at least to the extent of justifying further trial. Similar duplicate use of utilities for storage and handling of coal can not, however, be applied without substantial reduction in the total quantity of coal that can be stored, or without serious interference with the operation of handling. It has been found that proper service demands the maximum capacity of existing plants, and that the factors involved apply with equal force to whatever extensions may hereafter be developed.
- 4. It is accordingly now announced that, with the approval of the Secretary of War, the policy of The Panama Canal no longer contemplates the establishment of private coal depots in the Canal Zone.

CHESTER HARDING.

Governor.

Approved:

Newton D. Baker,

Secretary of War.

### Record Fuel Oil Transactions During March.

A total of 698,805 barrels fuel oil were handled by The Panama Canal fuel oil plants during the month of March. Of this quantity, 363,723 barrels were received and 335,082 barrels were issued or sold by The Panama Canal and the private oil companies with tanks in the Canal Zone.

During the month, sales to shipping by The Panama Canal and by private companies amounted to 46,073 barrels and 13,926 barrels,

respectively, at Balboa, and 79,072 and 175,826 barrels, respectively, at Cristobal. The total quantity supplied to shipping was 314,897 barrels.

During February, the total business transacted at the fuel oil

plants amounted to 594,703 barrels.

During the six months' period ending March 31, 1920, 2,937,919 barrels of fuel oil were handled by the fuel oil plants, of which quantity 1,479,607 barrels represent receipts and 1,458,312 barrels, issues and sales. During the period the sales to shipping by The Panama Canal and the private oil companies amounted to 302,222 barrels and 983,395 barrels, respectively.

### Transfer Cargo to Ee Specifically Routed to Connecting Carrier.

The Panama Railroad Company, in charge of the handling of transshipped cargo at the Canal terminals, has issued the following circular No. 734, dated April 3, 1920, to the agents of all European steamship lines on the subject of routing cargo brought to the Canal terminals for transfer to connecting carriers:

"Following the procedure adopted by this Company with regard to American cargo, it is requested that, beginning with your next arrivals, all bills of lading specifically name the connecting steamship line by which the goods are to be forwarded beyond Cristobal.

"Bills of lading not showing this information, or showing more than one carrier

beyond Cristobal, will be returned for correction.

"It is believed that this method will result in just as rapid movement of cargo.

and eliminate a certain amount of confusion.'

With the publication of the above, it is required now that all cargo sent to the Isthmus for transshipment, from Atlantic or Pacific, be routed. As a matter of practice, practically all of the cargo sent here for some time has been routed, and in order to avoid difficulties which have arisen at times with reference to priority of arrival and otherwise to simplify handling it was decided to make specific routing a regular requirement.

In the days before the war practically all cargo sent to the Isthmus for Pacific carriers was unrouted, the shippers desiring to have it forwarded from the Isthmus by the first connecting steamer. At that time there was lively competition on the part of each line to secure cargo. During the war the condition was reversed: the Pacific carriers. having all the routed cargo they could accommodate, began to accept unrouted shipments only after they had taken care of their routed cargo. This resulted in congestion and a practice of picking the more remunerative cargo, with embarrassment to the Atlantic carriers and to the Panama Railroad Company in accepting unrouted cargo for transshipment. In consequence, the steamship lines bringing cargo from the United States were notified in July, 1918, that shippers should name definitely the Pacific carrier in their bills of lading, and it was decided that whenever it might be deemed advisable the same notice should be extended to the European lines. The circular quoted above is in harmony with this policy.

The question has been raised whether this policy will interfere with the development of the transfer business at the Canal and of the Isthmus as an entrepôt. The Panama Railroad Company states that the development of distribution of goods from the Isthmus is a matter of warehousing, with the storage of goods in quantity subject to order, and that it is not the function of the terminals to act as warehouses. Goods sent here for storage and distribution would in any event be consigned to a broker or agent, with destination shown on the bills of lading as the Isthmus, and would not be in the status of goods consigned to a connecting carrier, which are the shipments affected by the requirements that transfer shipments be specifically routed. The present policy does militate against "tramp" or irregular services picking up cargo at the Isthmus consigned to first steamer, but in the present condition of shipping there are no such services offering at the Isthmus, and the advantages of specific routing for the bulk of the business are held to outweigh the possible occasional disadvantages which might occur.

New lines considering entering the Isthmian transshipping trade, or lines which use the Canal in through service which may from time to time break cargo at the Isthmus for transfer, may, of course, always enter into arrangements with connecting carriers and make specific routing for their cargo. A summary of the services through the Canal and to its terminal ports was published in The Panama Canal Record of March 24, 1920, and will be republished from time to time to keep the information up to date. Additional information may be secured at any time from the Panama Railroad Company, Balboa Heights, Canal Zone, or 24 State Street, New York.

### Developing Traffic Between Cuba and the West Coast of North America.

The steamship *Sachem* of the Pacific Mail service, due at Balboa from San Francisco near the end of the month, is making a round voyage to Habana and return, and the *City of Para*, due approximately May 8, will also go to Habana. Since the Canal has been in operation 44 vessels have passed through it on their way from the west coast of North America to Cuba, 12 of them during the 9 months of the current fiscal year.

The Sachem was assigned to the San Francisco-Cristobal service, and made her first round voyage for the Pacific Mail between San Francisco and the Atlantic terminus of the Canal. Her voyage and that of the City of Para to Habana are in keeping with a policy of the company to extend the Panama service as demand warrants.

### Around-the-World Service from San Francisco.

The Pacific Mail Steamship Company has sent two vessels, the West Kasson and the West Boro, through the Canal on their way to San Francisco in a newly established around-the-world service. From San Francisco the ports of call are Honolulu, Yokohama, Kobe, Darien, Tientsin, Shanghai, Manila, Saigon, Singapore, Calcutta, Colombo (which are reached by the regular trans-Pacific and East India services of the company), thence Bombay, Alexandria, Bizerta, Marseilles, Barcelona, Baltimore, and Cristobal, returning to San Francisco. Sailings are every month, and the entire voyage requires approximately 6 months. The service at present carries cargo only.

### Examination for Panama Canal Service.

Board of Civil Service Examiners makes the following announcement:

Attention is called to the examination for stenographer and typewriter, for The Panama Canal service, to be held at the Administration Building, Balboa Heights, C. Z., on Sunday, May 2, 1920, beginning at 9 a. m. Applicants should make arrangements for having typewriters and typewriter tables for their individual use, also ink, pens, and pencils. Prospective applicants should make application on Form No. 1312, at once.

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight April 24, 1920.

4,546 2,425 5,428 1,829 1,829 5,341 2,628 4,013 4,899 3,009 2,314 6,834 4,105 5,095 1,517 706 6,044 Panama Canal 6,693 7,611 4 5,281 6,755 4,267 3,177 8,535 6,321 3,524 7,318 2,884 7,602 4,040 5,618 7,065 2,383 1,273 6,461 5,365 5,692 3,634 4,278 Gross 3,820 6,802 2,000 4,250 6,000 5,500 7,300 8,000 2,414 514 8,700 7,800 5,700 267 854 2,849 3,332 6,586 5,104 4,875 Coal. Phosphate rock.. General..... Gen. and case oil General General..... Coal.... Nitrate.... General mdse... Frozen, general. General Steel and coal Cargo General. Oil..... General. General General General General Coal. New York... Manila..... San Francisco. Puntarenas.... Honolulu.... Antofagasta... Vancouver.... San Francisco. /alparaiso.... Calfao..... Lyttleton..... San Francisco. London.... Arica..... Cristobal (d). Yokohama. Tocopilla. Guayaquil For-Savannah. Cristobal Corral. Guayacan.... Cristobal.... London.... Tampico.... Norfolk.... Cristobal.... Bergen....Boca Grande. New York Philadelphia New York New York Glasgow..... Philadelphia. Pisagua..... Norfolk.... Christiania. New York, New York. From-Cristobal Taltal. 25.0 20.52.25.0 20.52.6.0 6.0.6.0 23.7 26.6 19.0 25.0 23.3 23.3 18.1 19.0 18.7 water THROUGH THE CANAL-ATLANTIC TO PACIFIC. 0000 000004000 10 00 C -000 Beam 3525 55. 53. 54. 58. 58. Length 422.0 400.0 379.5 336.8 374.7 370.0 489.5 448.0 217.8 110.0 400.0 425.0 253.5 215.7 000000000 500000 380. 409. 345. 345. 475. 475. 400. 385. 420. 313. 428. 266. 435. THROUGH THE CANAL -PACIFIC TO Monarch Steamship Corp., Ltd. 4
A. H. Bull Steamship Co. 3
Standard Oil Co. 4
United States Shipping Board. 2
United States Shipping Board. 4
United States Shipping Board. 4
Pacific Steam Navigation Co. 3 Nippon Yusen Kabushiki Kaisha South American Steamship Line. Panama Railroad Steamship Line Harrison Steamship Line. United States Shipping Board... Kobe Shosen & Co..... United States Army..... Christian Nicholson & Co..... Peruvian Line. F. & W. Ritson Shaw, Saville & Albion..... Robert Dollar Co..... A. Line..... United States Shipping Board. United States Shipping Board. United States Shipping Board. United States Navy..... W. Ritson.... Pacific Steam Navization Co. Johnson Steamship Line Sudden & Christensen. Kawaski Company Line F. & W. Ritson. W. Wilhelmsen. J. S. & Japanese American... Norwegian. Norwegian. Nationality American.. British.... American. American. American. American. Chilean... Japanese. Japanese. American Peruvian. American Swedish. British. British. 120 330 14 138: 55 200 46 335 40244224 Cleared for sea moH 22. 20.5 18.13 14.13 14.13 233 20 1 20 20 20 19 18 8286 222213 2222222 Day 21.21 11.55 14.19 202424220 202120 202120 202120 07 00 56 07 05 05 05 35 05 35 05 05 Completed Hour transit 7.41.71.821.71.81.91.91.91 128172 18 18 18 22223 19818 220213 222222222 Day 7.41 7.47 9.09 6.32 7.11 8.51 2033 525 327 1580 1580 1580 1580 Entered Canal 900000000 0000000 Hour 90000 818 8888199 8288  $^{19}_{20} \\ ^{20}_{21} \\ ^{20}_{21} \\$ 222222222 Day 6.57 16.20 17.12 17.12 5.40 6.52 6.46 12.05 30 18.52 17.57 16.13 20.35 12.35 6.05 255 27 26 26 26 Arrived port TuoH 22.27 18 810010 88888889 13 13 13 DSA (a) Transport. Kiku Maru.... Lake Maurepas. Marica (a)..... Dunsyre (b).... S. C. No. 285... Scottish Mon-Acajutla..... Maru..... Magician tophersen... Hofuku Marn. Olen..... Conrad Mohr Edna..... Apple Branch Dewey..... Ancon..... Pedro Chris-Matatua... okushima West Islip. Nishmaha. Ship Jeavali.

Sailer. <u>e</u>

Dillwyn.....

Cape Fear

Evelyn....

ting oil. | 3,000 2 | 1,974}

Nitrate. Lubricating oil. General.

Martinique...

Iquique.....

Guayaquil

American. British...

21.30 30

20

American. American. American. Cristobal....

Ballast.....

4,800 3,639 2,537 7,500 5,966 4,442 1,640 2,335 1,602 4,442 1,540 2,335 1,603 4,603 4,603 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503			For—	Cartagena. Cartagena. New York and Haiti. New York and Haiti. Bluefelda. Colon. Colon. Colon Gracias. Cape Gracias. Cape Gracias. Cape Gracias. New York and Haiti. Cartagena. New York and wayports. New York and wayports.
osa Amsterdam Nitrate general. Cristobal General. Tampico. Ballast co. Cristobal (d) General. A. Tampico. Ballast a. Tampico. Ballast cristopal Partinum gold Calveston. Permin gold Clareston. Nitrate.		*DEPARTURES.	Line.	Crated States Shipping Board Panama Railroad Cartle Industry Panama Railroad Cartle Industry Panama Railroad Steanship Line. United States Shipping Board W. Y. N. Powelson Spanish Steamship Line. Chried States Shipping Board United Forti Co. United Forti Co. Divined Front Co. Divined Front Co. Divined Front Co. Divined Front Co. Divined Front Co. United Front Co. United Front Co. Chinged Front Co. United Front Co.
360. 51.0 19.2 Calcta Colosa. 350. 42.1 19.5 Valparaiso 384.3 51.2 20.0 Tecopilla. 253.0 37.0 18.0 San Francisco. 424.8 57.0 17.0 Autofa asta. 440.8 54.2 21.9 Kobe. 399.5 55.0 Longkong. 410.5 54.0 24.0 Hongkong.			Vessel.	Bartholomew Cariboan Santa Leonora. Gen, W. C. Gorgas. Tillamosk Tillamosk Tillamosk Tillamosk Heredin Heredin Heredin Zanjan Zanjan Lurrillam
360.0 350.0 7d 384.3 884.3 884.3 884.3 884.3 884.3 884.3 7d 389.5 7d 389.5 7d 410.5	PORT OF CRISTOBAL.		Date.	April 18 April 18 April 18 April 20 April 20 April 21 April 21 April 22 April 22 April 22
Royal Netherland S. S. Co	PORT OF		From-	New York. London via wayports. New York and Haiti. New Orleans. Golon. New York and Habana. Cartagena. New York and Kingston. Bluefields. Liverpool and wayports. New York and Haiti.
21 19 48 22 5 27 Dutch	ers. (e) 1,036.187 tons. (f) 563.	*ARRIVALS.	Line.	United States Shipping Board. Royal Mail Steam Packet Co. Famana Railroad Steanship Line. United Fruit Co. Famana Railroad Cattle Industry W. V. Nowelson. United Fruit Co. United Fruit Co. Cuited Fruit Co. Cuited States Shipping Board. Leyland Steamship Line. Panama Railroad Steamship Line. Panama Railroad Steamship Line. United Fruit Co.
21 1.30 21 7.58 21 1.40 21 8.05 21 17.30 23 7.29 22 17.30 23 7.29 22 17.30 23 7.29 23 13.00 66 55 23 13.00 66 55 23 23 23 4.00 67 23 23 23 4.00 67 23 23 23 4.00 67 23 23 23 4.00 67 24 10.45 24 9.30	(c) Motor schooner. (d) For orders.		Vessel.	Bartholomew Volgs Colon Haredia Arabia (c) Zacapa Caribbean Rattonville Nubian Con Gen. G. W. Goetlals. Heredia
Haarlem Palena Walter Hard- Sastle East Wind San Jose Lambru Laura C, Hall c West Cheswald West Cheswald	(c) Motor		Date.	April 18. April 18. April 18. April 19. April 20. April 22. April 22. April 22. April 23. April 23. April 23. April 23. April 24.

Leyland Steamship Line	United States Shipping Board Kobe.
April 22   Gen. O. H. Ernst.   April 22   Xodga.   April 23   Turnialba.   April 24   April 25   Colon.   April 24   April 25   Colon.   April 25   Colon.   April 26   Colon.   April 27   Arabia (c)   Colon.   April 28   Arabia (c)   Colon.   Colon	
ti. April 22. April 22. April 23. April 24. April 24. April 24. April 24. April 24. April 24. April 24.	April 18 Mulpua
Liverpool and wayports. New York and Haiti. Bocas del Toro.	Callao. Callao.
Leyland Steamship Line. Liverpool and wayports. Panama Railroad Steamship Line. New York and Hait. United Fruit Co. Bocas del Toro. Bocas del Toro.	Coastwise Steamship and Barge Co. Callao. Coastwise Steamship and Barge Co. Callao.
pril 23 Nation Pril 24 Nation Pril 25 Cen. G. W. Goethals. pril 24 Heredia Peredia	April 19 Anyox April 19 Baroda (9)
April 23 April 23 April 24	April 19

*Other than ships passing through the Canal. Barge.

April 19.....

6

Hours are expressed on the 24-bour basis and all hours greater than 12 are postmeridian.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending April 24, 1920.

1				Carg	0—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Caribbean Acajutla Gen. W. C. Gorgas. Imperial Leon XIII Gen. O. H. Ernst. Volga Colon Heredia Pedro Christophersen Chile Lacapa Edisto Palena Caribbean Turrialba Nubian	Panama Railroad Cattle Industry. Pacific Steam Navigation Co Panama Railroad Steamship Line. Chilean Steamship Line Spanish Steamship Line. Panama Railroad Steamship Line. Pacific Steam Navigation Co Panama Railroad Steamship Line. United Fruit Co. Johnson Steamship Line. Pacific Steam Navigation Co United Fruit Co. United States Shipping Board Chilean Steamship Line. Panama Railroad Cattle Industry. United Fruit Co. Leyland Steamship Line. Panama Railroad Cattle Industry. United Fruit Co.	April 18. April 18. April 19. April 20. April 20. April 21. April 21. April 21. April 22.	April 21 April 22 April 22 April 24 April 21	311 2,515 1,256 135 1,950 600 9,030 1,036 210	Tons.  1 5473 3,460 276 783 2,009 1,2243 3,226 38 (*) 4
San Jose Gen. G. W. Goethals. Laura C. Hall Heredia	Pacific Mail Steamship Line. Panama Railroad Steamship Line. Pacific Metals Corporation. United Fruit Co.	April 23 April 23 April 24	April 24	$1,676 \\ 2,290 \\ 56\frac{1}{2}$	10

* No cargo laded.

## Census of the Canal Zone. January, 1920.

A circular of the Acting Governor dated December 31, 1919, contains provisions for taking the 1920 census of the Canal Zone. The Zone was divided into the five districts therein designated, and the actual work of enumeration was begun and completed during January. This enumeration was of the civilian population only and includes no Canal or Panama Railroad employees or their families of any nationality living in Colon or Panama. Separate enumerations of the military population were made by the Army and Navy authorities, respectively. The population as shown by the Army census as of January 1, 1920, was 4,243, and that of the Navy of the same date as approximately 594.

The district designated Pedro Miguel was made to include several communities and camps in which only a scattering population exists; the detailed enumeration for this district is accordingly shown follow-

ing the tabulated statement for the entire Zone.

TOTAL.

Cristobal	Gatun.	Pedro Miguel.	Balboa.	Ancon.	Peni- tentiary.	Palo Seco leper asylum.	Total.							
808 609 586 614 27 36	594 540 456 516 15 5	997 927 919 937 43 20 7	1,243 1,073 1,022 1,050 50 25	542 403 243 293 41 17 25	6	12 9 2 1 8 4	4,202 3,561 3,228 3,411 184 108 48							
1,128 44	332 67	305 75	478 83	372 240	33	55 10	2,703 519							
3,857	2,525	4,230	5,035	2,176	40	101	17,964							
674	595	931	1,010	541	6	1	3,758 254							
77 326 477 425	102 352 355 217 626	177 586 735 400	130 569 775 637 919	24 123 208 228 493			510 1,956 2,552 1,921 3,793							
_	808 609 586 614 27 36 5 1,128 44 3,857 674	808 594 609 540 556 456 456 614 516 5  1,128 332 44 67 3,857 2,525 674 595  77 102 326 352 477 355 425 217	808 594 997 609 540 927 586 456 919 614 516 937 27 15 43 36 5 20 7, 1,128 332 305 44 67 75 3,857 2,525 4,230 674 595 931 77 102 177 326 352 586 477 325 735 425 217 400	\$\frac{808}{609}\$ \$\frac{594}{540}\$ \$\frac{997}{927}\$ \$\frac{1,243}{1,073}\$ \$\frac{586}{586}\$ \$\frac{456}{456}\$ \$\text{919}\$ \$\frac{1,022}{1,073}\$ \$\frac{614}{3}\$ \$\frac{516}{36}\$ \$\frac{5}{5}\$ \$\frac{20}{25}\$ \$\frac{25}{5}\$ \$\frac{11}{11}\$ \$\frac{11}{128}\$ \$\frac{332}{332}\$ \$\frac{305}{478}\$ \$\frac{47}{355}\$ \$\frac{25}{33.857}\$ \$\frac{2.525}{2.525}\$ \$\frac{4.230}{4.230}\$ \$\frac{5.035}{5.035}\$ \$\frac{77}{102}\$ \$\frac{177}{177}\$ \$\frac{130}{130}\$ \$\frac{326}{322}\$ \$\frac{352}{586}\$ \$\frac{569}{569}\$ \$\frac{477}{477}\$ \$\frac{355}{355}\$ \$\frac{735}{735}\$ \$\frac{755}{735}\$ \$\frac{75}{756}\$ \$\frac{569}{477}\$ \$\frac{425}{325}\$ \$\frac{217}{400}\$ \$\frac{637}{637}\$	808         594         997         1,243         542           609         540         927         1,073         403           586         456         919         1,022         243           614         516         937         1,050         293           27         15         43         50         41           36         5         20         25         17           5          7         11         25           1,128         332         305         478         372           44         67         75         83         240           3,857         2,525         4,230         5,035         2,176           674         595         931         1,010         541             254          24           326         352         586         569         123           477         102         177         130         24           326         352         586         569         123           477         355         735         775         208           477         400 <t< td=""><td>  Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   M</td><td>  Section   Gatun   Pedro   Miguel   Balboa   Ancon   Pententiary   leper   tentiary   leper   tentiary   leper   tentiary   leper   tentiary   leper   tentiary   leper   tentiary   leper   /td></t<>	Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   Miguel   M	Section   Gatun   Pedro   Miguel   Balboa   Ancon   Pententiary   leper   tentiary   leper   tentiary   leper   tentiary   leper   tentiary   leper   tentiary   leper   tentiary   leper							

TOTAL.—Continued.

	Cristobal	Gatun.	Pedro Miguel.	Balboa.	Ancon.	Peni- tentiary.	Palo Seco leper asylum.	Total.
Age, January 1, 1920:—Continued.								
31 to 40 years	935	624	842	1.212	594	15	29	4,251
41 to 50 years	506	197	320	612	372	2	16	2,025
51 to 60 years	183	39	83	147	107		14	573
61 to 75 years	29	13	23	34	27		3	129
Place of birth:							·	120
United States	884	555	564	2,201	1,474	3	3	5,684
Canal Zone	109	589	1,116	1,119	242			3,175
Foreign	2,750	1,366	2,477	_1,574	387	37	98	8.689
Naturalized	114	15	73	141	73			416
Occupations:								110
Attending school	522	370	134	1,026	233			2,285
Executive	5	8	2	6	17		2	40
Clerical	267	18	78	366	265	1	1 1	996
Skilled trades	532	181	241	880	674	11	3 1	2,522
Professional	5	21	28	65	102			221
Laborer	987	706	1,135	579	75	25	19	3,526

### WHITE.

		.,,						
	Cristobal	Gatun.	Pedro Miguel.	Balboa.	Ancon.	Peni- tentiary.	Palo Seco leper asylum.	Total.
Relation to head of family: Husbands. Wives. Sons. Daughters. Widows. Widowes. Divorced Bachelors:	339 214 158 138 11 25 5	187 184 121 125 3 3	218 187 110 136 12 6 3	814 701 569 555 38 18	523 398 243 293 37 17 25		i i 2	2,082 1,685 1,201 1,247 103 69 44
Male Female	267 32	36 15	72 19	288 42	294 186	16	2	975 295
Total names	1,189	674	763	3,036	2,016	16	7	7,701
Number of families	288	188	185	663	522		1	1,847
Unknown.  -1 year. 1 to 4 years. 5 to 10 years. 11 to 20 years. 21 to 30 years. 31 to 40 years. 41 to 50 years. 51 to 60 years.	19 69 111 115 216 336 220 91	23 88 86 62 137 171 84 13	5 20 66 94 74 142 209 102 39	59 263 383 420 545 749 470 120	24 123 208 208 416 557 352 103	3 9 4	2 3 1 1	5 145 609 882 882 1,647 2,029 1,229
61 to 75 years. Place of birth: United States. Canal Zone. Foreizn. Naturalized. Occupations:	880 50 145 114	555 29 75 15	560 90 43 70	27 2,189 468 238 141	25 1,474 242 227 73	3	3	5,664 879 745 413
Attending school Executive Clerical Skilled trades Professional Laborer	156 5 130 532 5 11	109 8 18 181 21 1	134 2 39 234 21 32	613 6 262 880 57 13	233 17 265 674 102 9	10	2	1,245 40 714 2,511 206 70

### COLORED.

	Cristobal	Gatun.	Pedro Miguel.	Balboa.	Ancon.	Peni- tentiary.	Palo Seco leper asylum.	Total.
Relation to head of family: Husbands. Wives. Sons. Daughters. Widows. Widowers. Divorced	468 395 428 476 16	407 356 335 391 12 2	757 740 809 801 31 14	429 372 453 495 12 7	19 5	5	9 8 2 1 6 4	2,094 1,876 2,027 2,164 81
Bachelors: Male Female Total names.	845 12 2,651	296 52 1,851	232 56 3,444	190 41 1,999	78 54 160	16	53 9	1,710 224 10,219
Number of families	385	407	742	347	19	6		1,900

### COLORED.—Continued.

	Cristobal	Gatun.	Pedro Miguel,	Balboa.	Ancon.	Peni- tentiary.	Palo Seco Leper Asylum.	Total.
Age, January 1, 1920:  Unknown	58 257 366 310 683 591 280 89	79 264 269 155 489 453 113 26	-249 157 520 641 326 664 621 212 44 10	71 306 392 217 374 463 142 27 7	20 77 37 20 4 2	10 10 2	2 11 24 25 14 13 3	249 365 1,347 1,670 1,039 2,321 2,200 783 203 42
Place of birth:         United States.           Canal Zone.         Foreign.           Naturalized.         Occupations:           Attending school.         Executive.	2,588 366	560 1,291 261	1,026 2,411 3	12 651 1,336 413	160	22	92	26 2,296 7,900 3 1,040
Clerical. Skilled trades. Professional. Laborer.	120	705	39	104 8 566		21	1 3 19	264 10 15 3,456

### CHINESE.

	Cristobal	Gatun.	Pedro Miguel.	Balboa.	Ancon.	Peni- tentiary.	Palo Seco leper asylum.	Total.
Relation to head of family: Husbands						1	2	26
Sons								
Daughters								
Widowers. Divorced.								
Bachelors: MaleFemale	16		1	1		1		18
Total names	17		23			2	2	44
Number of families	1		4					
-1 year	1	1						
1 to 4 years. 5 to 10 years.								
11 to 20 years								
31 to 40 years	8 6		12 6			1	1	25
51 to 60 years			1					
United States								
Foreign	17		23			2	2	44
Occupations: Attending school			1					t
Executive								18
Skilled trades Professional						1		1
Laborer								

# Census of the Canal Zone, January, 1920 (Exclusive of Military Population). WHITE.

WHILE.													
Place of birth.	Hus- bands.	Wives.	Sons.	Daugh- ters.		ELORS.	Widow-	Widows.	Divorced	Total.			
	bands.			16181	Male.	Female.	C13.						
United States	1,740	1,329	625	682	809	256	58	80	38	5,617			
Canal Zone			470	464						934			
Austria	2	1	2		4	1				- 3			
Belgium	1									1			
Bolivia	1	3								4			
Canada	27	24	1	3	7				1	63			
Costa Rica	4	15	11	5	1	3		1		40			

WHITE.—Continued.

						••				
Place of birth.	Hus-	Wives.	Sons.	Daugh-	Влен	ELORS.	Widow-	W:1	D: 1	
	bands.	mives.	СОПО	ters.	Male.	Female.	ers.	widows.	Divorced	Total
Colombia	4 2	17 6	4 2	6 4	7	1	1	1 2		41
Dutch Guiana					2					2
Denmark	9	4 4	1		5 4	2			1	21 18
England	66	48	3 4	10	25	5	2	6	1	166 13
France	9	10 5	2		5	i	1	2		29 16
Germany	33	14	2	2	8	ī	1	2		63
Grenada	1	11 2	5							12
Hawaiian Islands Hungary	7	5			1					1
Holland. Haiti.	4	3 2								15 7
Hawaii	1 31	1 21	ii	1						2
Italy Jamaica	11	7	1 2		16	3	1	3		75 25
Mexico	1 1	7 4	3	8 2	3	1				22 10
Martinique Nassau	1	1		····i						1 3
Norway. Nicaragua	17	17	3 4	3	6		2			48
Nova Scotia Porto Rico	1	1			1					3
Prussia	1 2 8	1			4					
Panama Prince Edward Is	8	50	41	35	7	14	1	1		157 1
Peru Portugal	4 2	2 2	3	1	ī			1		12
Philippines. Roumania		1	1	5	2 5		2	i		12
Russia Shetland Islands	4				7					5 11
Sweden Switzerland	21 4	16 3	7	1 2	7	1		1		1 47
Spain Suoth Africa	13	13 1	3	4	10					17 43
Scotland. Turkey.	23	10			9	2			3	1 47
Trinidad		1 2				·····i				1 3
Virgin Islands	2	3		2	1					6 3
Wales	3	1		i	1					5 1
Total	2,082	1,685	1,201	1,247	973	294	69	102	44	7,697
INCLUDED IN T	III ADO	777 4 77 77 5								

INCLUDED IN THE ABOVE ARE THE FOLLOWING ALIENS AND MEMBERS OF THEIR FAMILIES.

Place of birth.	Hus-	Wives.	Sons.	Daugh-	Васн	ELORS.	Widow-	Widows	Divorced	Total
	bands.		Donos	ters.	Male.	Female.	ers.	midows.	Divorced	10(31,
United States										
Canal Zone			13	10						23
Argentina										
Belgium Bolivia	1	1								2
Barbados							1			4
Canada	2	1	2	3	1		<u>.</u> .			9
Costa Rica Colombia	1 3	1	1	2		1 2		1		7
Cuba		i		1		1		2		20
Chile					2	l				2
Dutch Guiana Denmark										
Demerara	3		3	1	1	1		1		10
England	19	14	21	20	8	4		5	2	93
Ecuador		2	2	1	1	1				5
France	5	4		2	1			1		13
Germany	5	4	4	1	3	4				17
Greece	2		2	2	2					8
Grenada	1									1
Hawaiian Islands										
Hungary	1	2		2						
Holland	i			2	1	1		1		8
Haiti										
Hawaii		1								

INCLUDED IN THE ABOVE ARE THE FOLLOWING ALIENS AND MEMBERS, ETC.—Continued.

Place of birth.	Hus-	Wives.	Sons.	Daugh-	Васн	ELORS.	Widow-	Widows	Divorced	Total
Trace of billing	bands.	***************************************		ters.	Male.	Female.		l laows.	Birorcou	20041.
IrelandItaly	2 7	7 3	3		2 5	2		1		17 19
Jamaica	· ·				1			_		
Mexico	1									5
Martinique										
Norway				2						5
Nicaragua Nova Scotia										
Prussia	1									1
Poland										1
Panama		8	5	5	5	10				39
Prince Edward Is	3	1				·····i				
Peru Portugal								1		4
Philippines								-		
Roumania										
Shetland Islands										
Sweden Switzerland	2 3	2	8	4	1	1				6 17
Spain	13	9	6	10	9					
South Africa					l					
Scotland		4	1		. 1			2		13
Turkey										
Trinidad										
Venezuela Virgin Islands										
Wales										
West Indies										
						-	-			
Total	90	73	1 77	70	53	26	1	18	2	410

COLORED.

Bahamas			COL	JILLID.					
Canal Zone         29 / Antigua         21 / 46 / 74 / 2 / 61 / 8 / 8         47 / Antigua         21 / 26 / 8 / 8           Bahamas         21 / 90 / 31 / 908 / 1,187 / 9 / 978 / 9 / 978 / 9 / 18 / 3,930         8         3,930           British Guiana         15 / 11 / 32 / 32 / 22 / 1 / 31         11 / 32 / 32 / 32 / 32 / 32 / 32 / 32 /	Place of birth.	Cristobal	Gatun.		Ancon.	Ba!boa.		leper	Total.
Barbades	Canal Zone	29			2	18 61		i	47 205
Chile	Barbados. British Guiana Bermuda	731 15		32	9	978	9	1	3,930 81 10
Costa Rica         17         1         6          24         24         24         25         25         56         26         26         26         26         26         20         21         56         56         42         26         20         42         22         20         1         1         1         22         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         21         21         22         22         23         22         23         22         23         22         23         22         23         22         23 <th< td=""><td>Chile. Colon. Colombia.</td><td>24 142</td><td>11</td><td></td><td>1</td><td></td><td>2</td><td>1</td><td>4 26 227</td></th<>	Chile. Colon. Colombia.	24 142	11		1		2	1	4 26 227
France. 7	Costa Rica Demerara Dominica	17 14 13	1 3	6 18 23		21			24 56 42
Grenada         48         25         109         22         81         1         28           Guadeloupe         56         26         37         11         138         138           Haiti         6         1         1         1         8         8         12         8         13         1         8         8         12         8         1         1         1         8         8         6         299         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         2         2         1         1         1	France French Guiana Fortune Islands	7				1		1	7 2 9
Martinique         97         61         97         38         6         299           Montserrat         25         13         90         40         1         168           Mexico         10         6         11         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         12         14         5         23         444         16         18         16         12         18         18         18         18         19         11         1         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14	Grenada Guadeloupe Haiti	48 56 6	26 1	37 1		11		1	286 130 8
Pauama         238         37         88         12         41         5         23         444           Peru         15         2         1         1         18         1         9         11         1         4         18         1         9         11         1         4         4         1         8         1         9         11         1         4         4         1         9         11         1         4         4         4         1         9         11         1         4         4         4         1         9         11         1         4         4         4         1         9         11         1         1         4         4         4         1         1         1         1         4         4         4         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Martinique Montserrat Mexico	. 97 . 25	61	97 90		38	4	6 1	299 169 16
St. Kitts.         18         1         9         11         1         44           St. Lucia         133         37         128         67         5         37           St. Nevis         8         7         12         12         7         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12	Panama. Peru. Spain.	. 15		88			5		444 18 10
St. Thomas   2   9   1   1   1   1   1   1   1   1   1	St. Kitts. St. Lucia St. Nevis	. 18 133 . 8	37	128		67	i	1	40 370 15
Virgin Islands.     2       Venezueia.     5       Italy.     8       Total.     2,651       Chinese, native born.     2,651       1,851     3,444       160     1,999       22     92       40     40	St. Thomas Turk Islands Trinidad	. 2		9	2	1		1	153 11 1 204
Chinese, native born4	Virgin Islands Venezueia	. 5				2	1		. 2 5 8
Grand Total	Chinese, native born			3,444	160	1,999	22	92	10,219 44
	GRAND TOTAL	.	.1	1			1		10,263

### Pedro Miguel District.

WHITE.

	Pedro Miguel.	Lirio.	Golden Green.	Paraisn.	Empire.	Las Cas- cadas.	Mandinga Plantation.	Far Fan Pastures.	Miraflores.	Corozal Hospital.	Corozal.	Floating Equipment.	Mindi Bracho Plantation.	Majagual Plantation.	Gamboa.	Red Tank.	Summit.	Culebra.	Total
Relationship to head of family: Sons. Daughters. Husbands Wivest. Widows. Widowers. Divorced. Bachelors:	99 108 181 161 11 4 2			10 15 11 7	1 1				3	1 9 6					7 7 6 1		3 3	1 1 3 3 3	110 136 218 187 12 6 3
Male Female Number of— Names Families	43 15 624 161			 44 5	3 1				10	4 4 24 6		5  5			31 6		3 13 3	1 9 3	72 19 763 186
Age Jan. 1, 1920: -1 year 1 to 4 yrs 5 to 10 yrs 11 to 20 yrs. 21 to 30 yrs. 31 to 40 yrs.	76 61 111 176			1 4 11 8 6 5	i				  3 5	9 9					1 2 2 4 4 8		 1 3  6 2	1 1 3 1	20 66 94 74 142 209
41 to 50 yrs. 51 to 60 yrs. 61 to 75 yrs. Unknown Attending school Place of birth:	87 22 11 4 114			13	2				2	1 4		1			5 3 1 1 1		3	1 2	102 39 12 5 134
U. S	483 7 58 76			8 23 4 9	1 				1 	16 7 1		2 1 2 			23 2 3 3		10	2	560 43 70 90
Clerical Skilled trades Professional. Labor	30 197 19 10			49	2				9	2 2 5		4			12		3	3	39 234 21 32

### COLORED.

	Pedro Miguel.	Lirio,	Golden Green.	Paraiso.	Empire.	Las Cas- cadas.	Mandinga Plantation.	Far Fan Pastures.	Miraflores.	Corozal Hospital.	Corozai.	Floating Equipment	Mindi Bracho Plantation.	Majagual Plantation.	Gamboa.	Red Tank.	Summit.	Las Cascadas Plantation.	Culebra.	Total,
Relation-ship to head of family: Sons Dau'ters Hus'nds. Widows Widowers.	1 1 1 1 6 1 2	56 78 51 49	60 50 44 45 8	230	1 6 5 5	16 17 10 10		2 1 1 1		2 1		8	3	6	51 32 47 45 1	345 349 336 332 10		4	1 1 1 2	809 801 757 740 31 14
Divorced. Bachelors: Male Female. Number:	4 15	9	7 3	47 7	 2 1			1	2	57		11	1	4	13 3	67 6		8	1	232 56
Names. Families Age Jan. 1, 1920: Years—	31	246 50	218 45	1,058 230	20 5	53		6	2	77		19 8		10	193 44	1,456 339	33 8	12	6 2	3,444 742
1 ears— 1 to 4 1 to 4 5 to 10. 11 to 20 21 to 30 31 to 40 41 to 50 51 to 60 61 to 75 Unkn'n.	1 9 5 10 5	8 37 50 38 28 28 22 5	8 39 50 15 32 31 18 5	56 160 213 99 190 185 56 11 5	3 8 3 1	3 10 17 3 9 5 2 1		2 1 1	1	3 18 20 7 4		9 6 4	2 2	24 5	8 31 34 13 45 35 12 1 2 12	72 232 269 136 300 275 75 12 2 83	1 7 8 2 11 2 1	3 2 4 2	2 3	157 520 641 326 664 621 212 44 10 249

-(	C	T	A I	R	Œ	D	 C	onti	hue	d.

!	Pedro Miguel.	Lirio.	Golden Green.	Paraiso.	Empire.	Las Cascadas	Mandinga Plantation.	Far Fan Pastures.	Miraflores.	Corozal Hospital.	Corozal.	Floating Equipment.	Mindi Bracho   Plantation.	Majagual Plantation.	Gamboa	Red Tank.	Summit.	Las Cascadas Plantation.	Culebra.	Total.
Attend school Place of birth:		50	51	255	2	16		2			'				16	300	2		1	394
U.S Foreign Nat'zed	28		140	686 	<b>1</b> 9	24		1 5	2	77		19	4	10	133	1,066	26	12	6	2,411 3
Canal Zone. Class of labor: Execu-		92	78	369	1	29									60	390	7			1,026
tive Clerical Skilled		···· <u>·</u> 2	2	19											4	···i:				39
trades. Profes- sional. Labor	42,	68	66	4 288	9	10			2	77		1 i8	4	10	61	3 433	8		3	7 1,114

### CHINESE.

	Golden Green.	Paraiso.	Summit.	Total.
Relationship to head of family:				
Sons				
Daughters	1			
Husbands	2	1	19	22
Wives				
Widows				
Widowers				}. <i>.</i>
Divorced	1	l		
Bachelors:		ļ		
Male	1	1		1
Female				
Number:				
Names	2	2	19	23
Families.			4	4
Age January 1, 1920:			-	
-1 year	l			
1 to 4 years				
5 to 10 years				
11 to 20 years	1			
21 to 30 years	1	1	2	4
31 to 40 years	l î	1 1	10	12
41 to 50 years			6	1 6
51 to 60 years	1		1	`
61 to 75 years			1	
Unknown			1	,
Attend school				
Place of birth;				
United States	1	1		
	2	2	19	23
Foreign	_	-	19	26
Naturalized				
Canal Zone				
Class of labor:				
Executive				
Clerical				
Skilled trades				
Professional				
Labor	1 9	2	19	23

### Official Circular.

### Employees' Railroad Tickets.

PANAMA RAILROAD COMPANY, OFFICE OF AUDITOR,

Balboa Heights, C. Z., April 17, 1920. Circular No. R. A. 684:

CIRCULAR No. R. A. 684:

To all concerned—Effective May 1, R. A. Circulars Nos. 492, 494, 536, 603, 603-2, 603-3, and 660, in so far as they conflict with the following rules governing the sale and use of what are known as employees' \$1.50 excursion tickets, and the U. S. tickets, forms S and SS, are amended and the following instructions will govern:

1. The sale of the \$1.50 excursion tickets and U. S. tickets to employees will be discontinued. and employees desiring the reduced rate of trans.

and employees desiring the reduced rate of transportation should provide themselves with mileage books, which may be purchased on presentation of commissary purchasing authority or 24-trip pass books.

2. The sale of U. S. tickets, form S and SS, will 2. The sale of U. S. tickets, form S and SS, will be confined strictly to service men in uniform, or holding proper identification, and will not be sold nor honored for members of their families, relatives, nor visitors. Service men desiring reduced transportation for members of their families, relatives, or nonresident visitors, should purchase employees' mileage books, which will be sold to service men in uniform or holding satisfactory identification.

3. Mileage hools should indicate plainly what

3. Mileage books should indicate plainly what

persons are authorized to use them.

4. All of the \$1.50 employees' excursion tickets should be returned to this office for cancellation at close of business April 30.

H. A. A. SMITH,

Auditor, The Panama Canal
Approved and compliance directed.
S. W. HEALD, Superintendent.

# THE PANAMA CANAL RECORD

OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

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at Cristobal, C. Z., under the Act of March 3, 1879.

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Volume XIII.

Balboa Heights, C. Z., May 5, 1920.

No. 38.

### Visit of General Pershing.

Gen. John J. Pershing, U. S. A., arrived at Cristobal on the transport Northern Pacific on April 29, and departed on his return to the United States at midnight, May 4. His visit to the Isthmus was primarily for the purpose of inspecting the military establishment here. In addition, however, he went through the Canal from Gatun Locks to Pedro Miguel Lock; attended a reception by the Commanding General of the Army on the Isthmus; addressed the children of Ancon and Balboa schools; reviewed a parade of the Ancient Arabic Order Nobles of the Mystic Shrine; received hundreds of Americans at a public reception in the Administration Building, Balboa Heights, on Sunday night, May 2; was a guest at a dinner given by the President of the Republic of Panama on the night of May 3, and made a visit to the Arias ranch near Panama on May 4.

The Star & Herald of Panama reported Gen. Pershing as saying:

"I am greatly impressed with the wonderful efficiency of the Panama Canal. I came here prepared to see an engineering marvel functioning perfectly, but I had no idea of the magnitude of the project or of the marvelous efficiency attained by every division of the forces operating the Canal."

### Canal Traffic in April.

The following is a summary of the commercial traffic through the Canal, in April, 1920.

No.	D 11	Registered	Registered	Panama	Tons	Pacific to	Atlantic.
whips.	Registry.	gross tonnage.	net tonnage.	Canal net tonange.	cargo.	From-	То—
20 1 1	American Japanese Norwegian	92,631 5,020 4,341	61,840 2,639 2,723	71,947 3,608 4,214	122,255 7,450 8,094	W. coast South America Do. Do.	East coast U. S. Do. Do.
22		101,992	67,202	79,769	137,799	Do.	Do.
12 3 3 3	British American Chilean Peruvian	18,119 10,562 9,167 12,325	9,573 7,814 5,486 6,031	13,166 8,654 8,078 7,483	11,814 1,271 3,654 5,396	W. coast South America Do. Do. Do.	Cristobal. Do. Do. Do.
21		50,173	28,904	37,381	22,135	Do.	Do.
9 4 1 1 1 1 1	BritishGermanFrenchPortugeseItalianDutchChilean	38,250 24,932 5,989 5,605 5,368 3,589 1,885	23,134 15,240 3,600 3,528 3,200 2,291 1,308	30,249 21,457 4,081 4,501 3,457 3,660 1,577	37,036 23,527 5,565 6,775 1,500 4,800 2,736	W. coast South America Do. Do. Do. Do. Do. Do. Do. Do.	Europe. Do. Do. Do. Do. Do. Do. Do. Do.
18		85,618	52,301	68,982	81,939	Do.	Do.
12	American	63,755	40,101	50,438	72,707	United States	Coastwise.
8	British	78,629	49,870	63,744	44,349	Australia and New Z'land	Europe.
3 2 2	American British Japanese	17,784 11,921 9,552	11,223 7,546 5,763	13,301 10,370 7,302	19,444 15,500 8,876	Far East Do. Do.	E. coast U. S. Do. Do.
7		39,257	24,532	30,973	43,820	Do.	Do.
2 2 2	American British Norwegian	13,665 13,803 14,009	9,154 8,751 8,859	11,924 10,313 8,174	Ballast Ballast Ballast	W. coast S. America Do. Do.	Mexico. Do. Do.
6		41,477	26,764	30,411		Do.	Do.

		D. 1-4 113	D. determed I	Panama		Pacific to	Atlantic.
No.	Registry.	Registered I	net	Panama Canal net	Tons cargo.	From—	To—
ships.	American	11,723	8,110	9,765	14,342	Far East	Cuba. Do.
1	Japanese	4,105	2,523	2,936	5,362	Do.	Do.
3		15,828	10,633	12,701	19,704	Australia and N. Z'land.	E. coast U. S.
2	British	16,916	10,909	12,266	12,531	W. coast U. S	Europe.
1	American Swedish	2,532 3,730	1,496 2,244	1,693 4,001	1,507 5,500	Do	Do.
2		6,262	3,740	5,694	7,007	Do.	Do.
1	American	6,318	4,726	5,103	7,336	San Francisco	Alexandria, Egypt.
1	American	6,303	3,932	5,458	Ballast	W. coast U. S	Mexico.
1	American	3,099	2,364	2,316	Ballast	W. coast Cen. America.	Mexico.
1	American	2,795	1,693	1,829	3,000	W. coast S. America	Martinique.
1	American	2,649	1,621	2,024	375	W. coast U. S	Cuba.
1	American	2,135	1,319	1,602	1,540	San Francisco	Cristobal.
1	American	2,108	1,927	1,947	2,535	W. coast Cen. America	Europe.
1	French	1,175	699	700	754	British Columbia	Europe.
109		526,489	333,237	413,338	457,531	Do.	Do.
No.	D : (	Registered	Registered	Panama Canal net	Tons	Atlantic t	1
thips.	Registry.	gross tonnage.	net tonnage.	tonnage.	cargo.	From-	То-
27 2 1	American British Japanese		88,583 5,754 3,850 1,653	100,054 8,235 4,440 1,766	36,028 6,004 7,203 3,463	E. coast U. S Do. Do. Do.	W. coast S. America.  Do. Do. Do.
1	Norwegian	149,033	99,840	114,495	52,698	Do.	Do.
31	American				88,031	East coast U. S	Far East.
11 5 4	American British Japanese		43,178 17,053 14,130	52,712 22,122 15,685	32,366 24,020	Do. Do.	Do. Do.
20		114,077	74,361	90,519	144,417	Do	Do.
7 3 2 1	British Chilean Peruvian American	9,080 7,708	5,750 5,505 3,604 372	7,745 8,078 4,630 350	3,758 2,648 1,398 328	Cristobal  Do.  Do.  Do.  Do.	W. coast S. America Do. Do. Do.
13		07.004	15,231	20,803	8,132	Do.	Do.
5 2 1 1	British German French Swedish Norwegian.	29,207 980 5,440 4,952	18,496 268 3,892 3,973 2,056	22,457 272 4,639 4,013 3,009	18,416 22 Ballast 3,332 Ballast	Europe Do. Do. Do. Do.	. W. coast S. America Do. Do. Do. Do.
10		. 44,588	28,685	34,390	21,770	Do.	Do.
7	American	. 30,664	20,497	24,431	27,493	United States	. Coastwise.
3 2	American Norwegian.		11,419 8,842	16,043 10,176		Mexico Do.	W. coast S. America.
5		. 32,885	20,261	26,219	44,650	Do.	Do.
4			23,848	29,872	23,874	Europe	. Australia and N. Z.
3	American	21,885	15,590 9,877	17,248	23,500 10,796	E. coast U. S Do.	Australia and N. Z. Do.
5	+	37,274	25,467	31,746	34,296	Do.	Do.
	British	6,842	4,243	5,158	Ballast 6,770		W. coast U. S. Do.
		10 002			6,770	Do.	Do.
							W. coast U. S.
			-	- <del> </del>			W. coast Cen. Amer.
			-	-	_		Chile.
		_	-				British Columbia.
- 1				_	_		Manila.
	American.	0,109	2,000	2,500			

No.	D		Registered	Panama Canal net	Tons	Atlantic to Pacific.				
ships.	Registry.	gross tonnage.	net tonnage.	tonange.	cargo.	From-	То—			
1	British	5,187	3,327	3,872	7,800	Europe	British Columbia.			
1	British	3,808	2,410	2,662	700	Europe	W. coast Cen. Amer.			
1	American	3,099	2,364	2,316	4,500	Mexico	W. coast Cen. Amer.			
1	American	989	628	535	920	New Orleans	Panama.			
1	American	684	386	403	Ballast	Cuba	W. coast U. S.			
110		510,017	338,932	407,968	398,032	Do.	Do.			

In addition, the British cruiser Calcutta, 4,754 tons displacement, passed through the Canal north-bound.

### CANAL WORK IN MARCH.

The following is the report of the Governor to the Secretary of War, of Canal work in the month of March, 1920:

BALBOA HEIGHTS, C. Z., April 26, 1920.

The Honorable, the Secretary of War,

Washington, D. C.

SIR: I have the honor to submit the following report of The Panama Canal for the month of March, 1920:

### CANAL TRAFFIC.

The number of ocean-going commercial vessels passing through the Canal during the month was 235, exclusive of 9 United States Government vessels, as follows: Two destroyers, 2 tank ships, 1 collier, 1 minesweeper, 1 tug, 1 subtender, and 1 merchant ship with coal for the United States Navy. The month's traffic is classified in detail in a tabulation included in this report.

The net tonnage, Panama Canal measurement, of the 235 commercial vessels aggregated 819,362 tons, 115,900 greater than the preceding month. Their registered gross tonnage was 1,055,619, and registered net tonnage, 676,270. The total cargo carried was 894,516 tons of 2,240 pounds, 114,028 tons greater than for February. Of the total for this month, 2,906 tons were carried as deck cargo. The total number of vessels and craft of all kinds through the Canal was 246, as compared with 230 last month.

The average length of the commercial vessels was 356 feet, average beam 49 feet, and average draft in salt water 21 feet; their average tonnage, Panama Canal measurement, was 3,486; United States net equivalent, 2,894; registered gross, 4,492; and registered net, 2,878. The average cargo carried by the laden ships was 4,635 tons. The *Renown*, a British battle cruiser, carrying the Prince of Wales and staff, passed through the Canal southbound on March 30. This is the largest ship in length and displacement to have passed through the Canal. She is 795 feet in length, over all; her displacement as measured for the collection of Panama Canal tolls is 33,379 tons; and her beam,  $91\frac{1}{2}$  feet. At the time of transit her draft in fresh water was 31 feet 8 inches.

The United States coastwise trade for the month comprised 12 vessels with a total tonnage of 42,785, Panama Canal measurement, carrying 64,482 tons of cargo. There were 3 vessels from the Atlantic to the Pacific Coast with a total Panama Canal net tonnage of 8,104, and cargo of 7,650 tons; and from the Pacific to the Atlantic Coast, 9 vessels with a total Panama Canal net tonnage of 34,681, and cargo of 56,832 tons.

PRINCIPAL COMMODITIES.

Bulk shipments of whole cargoes of the different principal commodities included in the March traffic were:

### FROM ATLANTIC TO PACIFIC.

Commodity.	No. of cargoes.	Tons.	Total tons.	From—	То
Crude oil Crude oil Crude oil Crude oil Crude oil Crude oil Petroleum Petroleum Crude aphtha Coke. Coal	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16,393 14,000 11,500 9,700 9,720 11,305 8,600 1,900	61,313 21,805 9,500 4,360 3,336 7,700	Tampico. Tampico. Port Arthur. Sabine.	Tocopilla. Balboa. Taltal. Balboa. Yokohama. China. China. San Francisco. Iquique. Antofagasta.

### FROM PACIFIC TO ATLANTIC.

Commodity.	No. of cargoes.	Tons.	Total tons.	From-	To-
Nitrate	1	11,400		. Arica	Antwerp,
Nitrate	1	9,027	1		Antwerp.
Nitrate	1	8,023			Dunkirk.
Nitrate	1	7,000			La Pallice.
Nitrate	1	5,042			Bordeaux.
Nitrate	1	8,175			United Kingdom.
Nitrate	1	5,213		Pisagua	United Kingdom.
Nitrate	1	5,700		Mejillones.	Sweden.
Nitrate	1	4,600		Iquique	Europe.
Nitrate	1	3,410		Antofagasta	Europe.
Nitrate	2	12,950		Antofagasta	New Orleans.
Nitrate	1	8,175		Iquique	New Orleans.
Nitrate	1	3,018		Taltal	New Orleans.
Vitrate	1	3,000		Caleta Buena	New Orleans.
Nitrate	2	15,236		Iquique	Charleston.
Nitrate	2	17,500		Antofagasta	Charleston.
vitrate	1	7,007		Talcahuano	Charleston.
litrate	1	3,062		Tocopilla	
Vitrate	ī	4,550		Tocopilla	Charleston.
itrate	1	4,439		Mejillones.	Savannah.
litrate	î	3,452		Caleta Bucna	Savannah.
litrate	$\hat{2}$	5,829		Mejillones	Savannah
litrate	ī	3,002		Caleta Colosa	Wilmington.
litrate	î	3,250		Iquique	Wilmington.
litrate	î	2.614		Antofagasta	Norfolk.
itrate	î	8,158		Caleta Colosa	Norfolk.
itrate	î	4.112		Caleta Corosa	Delaware River.
itrate	î	3,510		Caleta Colosa	Hampton Roads.
itrate	î	3,350		Mejillones	Boston.
itrate	î	3,200		Caleta Colosa	Pensacola.
itrate	î	3,000		Antoformati	New York.
itrate	î	925	190,931	Antofagasta	Baltimore.
lour	4	24.882	190,901	Pisagua	Mobile.
our	i	7,785		Portland	New York.
our	î	10,400	43,067	Everett	New York.
ood products:	1	10,200	40,007	Tacoma	New York.
Cold storage	2	11,373		Wallington	7 1
Cold storage	ī	0 000		Wellington Lyttleton	London.
Cold storage	î	0.000		Port Divis	London.
Beans and canned g'ds	î	3,112	30,485	Port Pirie	London.
mber	î	1.971	50,400	San Francisco	Baltimore.
mber	1			Souttle	United Kingdom
mber	i			Seattle	Havre.
mber	1	1,865		Victoria	London.
mber	1	1,625	0.400	Tacoma.	Cuha.
bricating oil.	i .	1,025	9,488	Gray's Harbor	New York
ce	1 1		11,000	San Francisco	London.
	1 .		7,900	Hongkong	Cuba.

### LATIN-AMERICAN TRAFFIC.

Commercial vessels passing through the Canal en route to the west coast of Central and South America were classified as follows:

Nationality.	No. of ships.	Registered gross tonuage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
United States British Chileau Norwegian Peruvian Dutch ttalian French Danish Japanese	29 18 6 5 4 3 2 1	131,530 55,182 18,378 29,710 17,085 14,618 10,343 6,765 4,828 3,390	86,237 31,789 11,468 18,727 9,104 9,181 6,308 3,681 3,030 2,044	100,324 40,339 14,918 23,457 9,841 12,653 7,882 4,146 4,220 2,480	Tons. 62,546 19,206 2,174 23,700 2,030 2,475 1,350 2,353 3,336
Total	70	290,629	181,569	220,440	117,052

Of the 70 vessels above, 28 were in ballast; 25 from United States ports; 3 from Cristobal, 2 from the United Kingdom, 2 from St. Lucia, and 1 from the Azores. Of the 42 laden vessels, 11 were from United States ports, 10 with 39,210 tons of general cargo, and 1 with 3,336 tons of coal; 17 from Cristobal with 11,078 tons of general cargo; 6 from Tampico, Mexico, with 47,093 tons of fuel oil; and 8 from European ports, with 11,835 tons of general cargo. One ship of 692 tons, Panama Canal net measurement, with 590 tons miscellaneous cargo, was bound from Cristobal to Champerico, Guatemala; the remaining 69 vessels being destined to South American west coast ports.

The Latin-American traffic from the west coast of Central and South America for March is classified in the following tabulation:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo
United States British Norwegian Peruvian Itsalian French Chilean German Japanese Swedish Spanieh Danish	33 188 75 3 22 3 21 1	125,687 44,273 33,739 20,246 11,647 11,606 9,096 9,691 8,134 3,774 3,482 2,858	83,907 23,718 21,582 10,787 7,324 7,251 5,521 6,124 5,046 2,875 2,490 1,692	96,895 35,029 23,923 12,971 9,311 8,322 7,989 7,817 5,900 3,967 2,615 2,459	Tons. 140,546 36,788 28,601 11,643 10,506 13,300 4,986 11,406 5,706 5,042 4,556
Total	77	284,235	180,317	218,228	282,919

Five of the above vessels, 4 oil tankers and 1 schooner, were in ballast. Sixty-seven per cent of the total cargo consisted of nitrate. Four vessels with a total net tonnage of 5,345, Panama Canal net measurement, carrying 5,425 tons of cargo, were from Central American ports; the balance were from South American west coast coats.

The registry of the vessels engaged in this traffic for the month, the kind and quantity of the cargo handled, and its destination are shown in the tabulation follow-

ing:

No.	Registry.	Tons cargo.	Commodity.	Total commodity.	Destined to—
21 1 2 1 2 1 1 2 2 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	United States. United States United States United States United States United States United States United States United States United States United States United States British British British British Norwegian Norwegian Norwegian Peruvian Peruvian Italian Italian Italian Common French French French Chilean German Japanese Swedish Spanish	9,027 8,175 20,320 2,572 10,384 26,404 20,576 8,025	Nitrate Nitrate Nitrate General General Manganese ore Ballast Cable ship General Ballast Nitrate Nitrate Nitrate Nitrate Nitrate Sallast Nitrate Sallast Nitrate General Nitrate General Nitrate General Nitrate General Nitrate General Nitrate General Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate	22, 592 2, 413 36, 788 28, 601 6, 233 3, 410 8, 875 1, 625 6, 300 7, 000 4, 986 9, 869 9, 869 11, 400	United States ports. Belgium. United Kingdom. United Kingdom. United States ports. Cristobal. United States ports. Mexico. Cristobal. United Kingdom Cristobal. United Kingdom Cristobal. United States ports France. Mexico. Cristobal. France. Italy. Europe, port unknown France. France. Cristobal. United Kingdom Burope, port unknown France. Cristobal. United Kingdom Belgium. Sweden. France.
1 77	Danish		Nitrate	4.550	United States ports.

Sixty-two of the vessels passing through the Canal this month were under control of the United States Shipping Board; combining a total Panama Canal net tonnage of 223,657 and carrying 266,099 tons of cargo. Thirty were southbound with 106,654 tons of cargo; 32 were northbound with 159,445 tons of cargo.

### PRINCIPAL TRADE ROUTES.

Separate statements attached to this report show the ports of origin and destination tor all cargo through the Canal for the month (see pages 560 to 562, and 571); the tabulation below gives the distribution according to the principal trade routes.

		Total vess	els.	Vessels in hallast.	
	Ves- sels.	Panama Canal net tonnage.	Cargo	Ves- sels.	Panams Canal net tonnage.
Allantic to Pacific. United States to west coast of South America. United States to Far East.	30 25	114,700 128,613	42,546 188,651	20	73,853

		Total vess	ela !	Vess	els in
			010.	bal	last.
,	Ves- sels.	Panama Canal net tonnage.	Cargo.	Ves- sels.	Panama Canal net tonnage
Allantic to Pacific.—Continued. Cristobal to west coast of South America. Europe to west coast of South America. United States to Australia and New Zealand Mexico to west coast of South America. Europe to Australia and New Zealand. Europe to Australia and New Zealand. Europe to west coast of United States United States coastwise. Cristobal to west coast of United States. St. Lucia to west coast of South America. Mexico to west coast of United States. East coast of United States to British Columbia Asores to west coast of South America. Porto Rico to west coast of South America. Cristobal to west coast of Central America. Kingston, Jamaica, to west coast of United States.	20 10 7 6 5 4 3 2 2 1 1 1 1	35,125 34,535 34,571 31,730 33,264 13,711 6,104 3,756 216 5,256 2,286 1,828 1,237 692 73	11,078 11,835 43,214 51,593 34,604 13,250 7,650 2,992 9,500 9,127	2 1 1	4,292 2,584 4,068 1,389 210 2,286 1,828
Total(Two British cruisers with a displacement tonnage of 38,133 are not included.)	121	455,058	428,473	33	90,519
West coast of South America to United States. West coast of South America to Europe. West coast of South America to Europe. West coast of South America to Cristobal United States coastwise. Australia and New Zealand to Europe. West coast of United States to Europe. British Columbia to Europe. West coast of South America to Mexico. Far East to east coast of United States. West coast of Central America to Cristobal West coast of Cultied States to Cristobal Australia and New Zealand to United States. Far East to Cuba. West coast of Central America to Europe. West coast of Central America to Europe. West coast of United States to Cuboa. Australia and New Zealand to United States. Par East to Cuba. West coast of United States to Cuboa. Panama to Port Limon, Costa Rica.	1	84,482 74,698 31,097 34,681 50,293 18,971 12,456 21,406 14,426 2,960 4,369 5,246 4,623 2,585 1,976 25	144,892 111,106 23,496 56,832 47,225 24,217 15,073 17,251 2,679 3,951 8,810 7,900 746 1,865	1 4 1 1	21,406 5,052
Total	112	364,304	466,043	7	26,593

### SERVICES TO CANAL SHIPPING.

Miscellaneous repairs were made at Balboa and Cristobal shops on 166 vessels during the month; 108 at Cristobal and 58 at Balboa; 22 vessels were drydocked; 10 at Cristobal and 12 at Balboa. Bunker coal in the amount of 41,236 tons was furnished to 146 commercial vessels; 35,214 tons to 124 vessels at Cristobal, and 6,022 tons to 22 vessels at Balboa. Forty-one ships were furnished a total of 98,148 barrels of fuel oil; 21 at Cristobal with 61,728 barrels, and 20 at Balboa with 36,420 barrels. There were 300 vessels supplied with 14,076,880 gallons of water; 194 at Cristobal with 11,349,880 gallons, and 106 at Balboa with 2,727,000 gallons. Sales of commissary supplies to commercial ships other than those of the Panama Railroad Steamship Line aggregated \$112,182.44, including \$3,490.30 for laundry service at Cristobal and Ancon laundries; these sales having been made to 189 vessels at Cristobal in the amount of \$78,578.74, and to 107 vessels at Balboa in the amount of.\$33,603.70 Charges for tug service for vessels using the Canal and the terminal ports totaled \$28,757.05, of which \$16,518.75 was earned at Cristobal, and \$12,238.30 at Balboa

### STATEMENT OF OPERATIONS.

Details of the business transacted at the Canal terminals are included in the following tabulation:

Item.	Cristobal.	Balboa.	Total
Commercial ships making trausit of Canal.  Net tonnage of commercial ships, Panama Canal measurement.  United States equivalent net tonnage of commercial ships. Registered gross tonnage of commercial ships. Registered net tonnage of commercial ships. Cargo through Canal in commercial ships, tons of 2,240 pounds.  Deck load cargo, included in above. Nationality of commercial ships through the Canal:  British Chilean.	455,058 378,991 583,485 372,482 428,473 429	364,304 301,045 472,134 303,788 466,043 2,477	236 819,362 680,036 1,055,619 676,270 894,516 2,906
Costa Rican		1	1

^{*}Includes 2 British cruisers with a total displacement tonnage of 38,133.

Item.	Cristobal.	Balboa.	Total,
fationality of commercial ahips through the Canal—Continued.  Danish.  Dutch.  French.	1 3 1	1 6 2	. 3 3 7 2
German Italian Japanese Norwegian Peruvian	2 7 6 4	3 2 9 5	5 9 15 9
Spanish Swedish United States	1 55	51	106
Total anama Canal net tonnage of commercial ships through the Canal:	123	112	235
British	127,632 14,918	95,417 7,989 25	223,049 22,907 25
Costa Rican Danish Dutch French	4,220 12,853 4,146	2,459	6,879 12,853 19,481 7,847
German Italian. Japanese, Norwegian Peruyian	7,882 34,891 29,064 9,841	7,847 8,311 10,622 34,861 12,971	16,193 45,513 63,925 22,812
Spanish Swedish United States.	4,019 205,392	2,615 3,967 161,883	2,615 7,986 367,477
Total	455,058	364,304	819,36
United States equivalent net tonnage of commercial ships through the Canal: British. Chilean. Costa Rican.	104,822 10,930	75,666 4,927 25	180,488 15,857 28
Danish Dutch French	4,165 10,266 3,600	2,471	6,630 10,260 16,873 6,090
German Italian Japanese Norwegian Peruvian	30,710 24,048 7,764	6,090 7,226 8,853 28,858 8,799	13,75 39,56 52,90 16,56 2,23
Spenish. Swedish. United States.	2,244 173,916	8,799 2,236 2,295 140,326	4,53 314,24
Total	378,991	301,045	680,03
British. Chilean. Costa Rican	18,378	119,543 9,096 30	287,45 27,47 3
Osta Arean Danish Dutch French German	4,828 14,618 5,765	2,858 21,753 9,691	7,68 14,61 27,51 9,69
Italian Japanese Norwegian Peruvian	10,343 46,238 36,803 17,085	11,647 14,099 45,002 20,245	21,99 60,33 81,80 37,33 3,48
Spanish. Swedish. United States.	3,745	3,482 3,774 210,913	7,51 468,68
Total	583,485	472,134	1,055,61
British Chilean	103,819	76,969 5,521 25	180,78 16,98
Costa Rican  Danish  Dutch  French  German	3,030 9,181 3,681	1,692	4,72 9,18 17,19 6,12
tahan Japanese	6,308 29,268 23,206	6,124 7,324 9,303 28,121 10,787	13,63 38,57 51,32 19,89
Spanish Swedish United States	2,858	2,490 2,875 139,041	2,49 5,78 309,60
Total		303,788	676,2
Cargo carried by ships according to nationality:	. 129,594	99,988	229,58

Item.	Cristobal.	Balboa.	Total
Cargo carried by ships according to nationality—Continued.	0.005		
Danish. Dutch.	3,336 2,475	4,550	7,885 2,475
French	235	21,352	2,475 21,587
German	1,350	21,352 9,869 10,500	9,869 11,850 66,588 63,970 13,673 5,042
Iananese	46,891	19.697 L	66,588
Norwegian Peruvian	46,891 32,000 2,030	31,976 11,643	63,970
Spanish.		5,042	5,042
Swedish	4,950 203,438	5,700 240,740	10,650 444,178
United States			
Total Tolls levied against commercial ships, by nationality:	428,473	466,043	854,510
British	\$148,267.20	\$94,509.70	\$242,776.90
Chilean Costa Rican	11,580.00	6,168.75 18.75	17,738.75 18.75
Danish	5,064.00	2,950.80	8,014.84
DutchFrench	12,832.50	16,591.25	12,832.53 21,091.25
German		7,612.50	7,612.50
Italian	8,157.50	8,985.90 11,066.25	17,143.40 48,254.05
Japanese	37,187.80 29,099.71	30,498.20	59.597.91
Peruvian	8,633.75	10,998.75 2,716.25	19.632.50
Spanish. Swedish. Swedish.	2,805.00	2,868.75	2,716.25 5,673.75 368,200.89
United States	198,021.53	170,179.36	368,200.89
Total	\$466,148.99	\$365,155.21	\$831,304.20
Vessels passing through the Canal free of tolls: U. S. Navy destroyers	9		2
U. S. Navy destroyers	ĩ		1
U. S. Navy minesweeper	1		I I
U. S. Navy tug. U. S. Navy tankships.	1	i	2
Merchant ship.  Merchant ship with coal for U. S. Navy.	1		1
U. S. Navy subtender	1	i	i
		2	0
Total  Total ocean-going ships passing through the Canal  Launches through Canal  Not the property of shore Panama Canal measurement	130	114	244
Launches through Canal	2 16		10
Net tonnage of above, Panama Canal measurement.  Total vessels and craft passing through the Canal.	132	114	248
Cargo on which no tolls were chargedtons.	34,298		34,298
Commercial ships through Canal without cargo but not in ballast  Net tonnage of above, Panama Canal measurement	1	675	675
Displacement tonnage Commercial ships through Canal in ballast.	38,133	7	38,133
Net tonnage of above. Panama Canal measurement	88,691	26,591	115,282
Net tonnage of above, Panama Canal measurement  Total commercial ships without cargo transiting the Canal	38,133	8	38,133
Displacement tonnage of 2 ships from Cristobal	00,100		
Panama Canal magazzoment	88,691	27,266	115,957
Noter ships through the Canal	69	9,731	9,800
Motor ships through the Canal.  Net tonnage of above, Panama Canal measurement. Sailing ships through the Canal.  Net tonnage of above, Panama Canal measurement.	3,317	1,532	4,849
Net tonnage of above, Panama Canal measurement	3,317	1,002	1
Yachts through the Canal Net tonnage of above, Panama Canal measurement.	\$378,266.65	\$345,243.20	\$723,511.85
Tolls levied on laden ships through the Canal	68,815.84	19.910,01	88,725.85
Tolls levied on ships in ballast. Tolls levied on displacement tonnage.	19,066.50 15.60		19,068.50 15.60
Tolls levied on launches		-	
Total tolls levied	\$456,164.59 282	\$365,155.21	\$831,319.80
Total ships entering port, including Canal transit		262	554
	574	522	1.096
Total ships handled	890,593	759,668	1,650,261
Net registered tonnage of vessels clearing port.	1,072,104	714,326	1,786,430
Total for vessels entering and clearing	1,962,697	1,473,994	3,436,691
Registered gross tonnage of vessels entering port	1,362,267	1,164,377	2,526,644 2,648,417
Registered gross tonnage of vessels clearing port	1,534,547	1,113,870	
Total for vessels entering and clearing.	\$2,896,814	\$2,278,247	\$5,175,018 71
Vessels entering port but not passing through the Canal.  Net tonnage of above.	164,037	16,972	181,009
Gross tonnage of above.  Vessels clearing port but not passing through the Canal		24,276	299,147 76
Vessels clearing port but not passing through the Canal  Net tonnage of above	. 000,141	17,998	371,745 427,357
Gross tonnage of above		24,638	427,357

	Cristobal.	Balboa.	Total.
Item.	Cristobai.	138:008.	1 Otal.
Vessels passing through Canal and handling passengers or cargo at port, entering.  Net tonnage of above	75,947 128,712	93,268 155,575	80 169,215 284,287
Net tonnage of above. Gross tonnage of above. Vessels passing through Canal, and handling passengers or eargo at port, clearing. Net tonnage of above. Gross tonnage of above. Transit cargo arriving. tons. Transit cargo cleared. tons.	70,022 118,635 888,498 853,415	91,704 153,842 925,798 910,884	80 161,726 272,477 1,814,296 1,764,299
Total transit cargo handled tons. Local cargo arriving tons. Local cargo shipped tons.	1,741,913 106,564 3,885	1,836,682 19,907 2,074	3,578,595 126,471 5,959
Total local cargo handled	110,449 45,039 40,305 1,040,101 897,605 74,207 62,170 1,609	21,981 128 2 945,833 912,960 2,970 4,307 209	132,430 45,167 40,307 1,985,934 1,810,565 77,177 66,477 1,818
Total cargo bandled by Receiving and Forwarding Agency of P. R. R	137,986 68,808 120 34,581 4 633	7,486 4,211 21 6,019 1 3	145,472 73,019 141 40,600 5 636
Panama Railroad vessels supplied with Diffice coal. Coal supplied above vessels.  U. S. Army vessels supplied with eoal. Coal supplied above vessels.  Total vessels supplied with coal from Panama Railroad deposits Total vessels supplied with coal from Panama Railroad deposits Total coal furnished above vessels.  Coal supplied to P. R. departments. tons. Coal supplied The Panama Canal. tons. Coal supplied The Panama Canal. tons. Coal supplied The Panama Canal. tons.	182 128 35,396 1,016 91 1,938 402	2 23 6,024	184 151 41,420 1,016 91 2,913 402
Total coal furnished from Panama Railroad depositstons Coal received during March	38,843 52,759 67,828 53,912	6,999 94 6,828 13,733	45,842 52,853 74,656 67,645
Coal on hand March 1, 1920	9 13,264 41,871 28,616 18 44,407 17,321 204 17,141 6,998	1,753 15,227 16,980 19 29,656 6,764 2,664 34,828 6,990	1,762 13,264 57,098 45,596 37 74,063 24,085 2,868 17,141 41,826 6,990
Total fuel oil furnished from Panama Canal tanks barrels fuel oil received during the month barrels Fuel oil on hand, April 1, 1920 barrels Fuel oil on hand, Mareh 1, 1920 barrels Other oil pumped for individuals and companies barrels Diesel oil on hand, April 1, 1920 barrels Vessels supplied with water Water sold to ships gals, Vessels on which miscellaneous repairs were made	194 11,349,880 108	80,902 76,918 36,005 39,989 58,369 1,396 106 2,727,000 58	166,973 127,539 47,720 87,154 443,329 1,396 300 14,078,886
Veseels drydocked Commercial vessels furnished commissary supplies. P. R. R. vessels furnished commissary supplies. Other U. S. Government vessels furnished commissary supplies	1S9 11	107 1 16	296 1 12 37
Total vessels furnished commissary supplies		124	345
Commissary sales to commercial vessels:  Ice. Wholesale groceries. Wholesale cold storage. Laundry Miscellaneous.	49,886.99	\$1,282.15 5,073.70 24,676.16 37.89 2,533.80	\$4,433.73 23,761.77 74,563.18 3,490.30 5,933.49
Total Oommissary sales to Panama Railroad vessels:	\$78,578.74	\$33,603.70	\$112,182.4
Ommissary sates to t'anama Kairona vesseis:  Lee Wholesale groccries Wholesale cold storage. Laundry. Miscellaneous,	1,442.88 6,175.74 1,192,69	\$2.40 18.68 24.76	\$134.40 1,461.50 6,200.50 1,192.60 349.10
Total		\$46.77	\$9,338 2

Item.	Cristobal.	Balboa.	Total.
Commissary sales to other Government vessels: Ice. Wholesale groceries. Wholesale cold storage. Laundry. Miscellaneous.	\$231.84 2,382.98 12,332.40 446.30 659.25	\$196.00 12,530.89 9,996.87 19.55 1,577.45	' \$427.84 14.913.87 22,329.27 465.85 2,236.70
Total	16,052.77	24,320.76	40,373.53
Total commissary sales to all vessels	\$103,923.01	\$57,971.23	\$161,894.24
First cabioOther than first cabio	3,309 3,215	1,805 2,079	5,114 5,294
Total Passengers departing, including transit passengers:	6,524	3,824	10,408
First cabin. Other than first cabin.	3,338 3,053	1,672 2,052	5,010 5,105
Total. Total movement of passengers. Passengers disembarking:	6,391 12,915	3,724 7,608	10,115 20,523
First cabin. Other than first cabin.	1,486 1,639	373 117	1,859 1,756
Total Passengers embarking:	3,125	490	3,615
First cabin Other than first cabin	1,648 1,487	240 90	1,888 1,577
Total Services to American seamen:	3,135	330	3,465
Seamen shipped Seamen paid off Seamen deserted Seamen deceased	115 16	120 241 5	350 350 21
Seamen lodged, subsisted, and repatriated	43	52	95
Total amount earned	\$14,584.67 5,122.74	\$61,084.17 21,359.80	\$75,668.94 26,482.54
Balance due seamen Paid to seamen Received on deposit for seamen "Includes immigration deposits of \$550. Services to American vessels:	\$9,461.93 1,691.16 7,770.77	\$39,724.37 37,467.05 *2,807.32	\$49,186.30 39,158.21 10,578.09
Crews shipped. Crews paid off.	1		1
Shipping articles written	27	13	40
Marine notes of protest extended. Bills of health issued. Clearances issued.	144	3 146 137	290 300

### LOCK OPERATION.

Lockages of commercial vessels for March were as follows:

	Number of lockages.			Number of vessels		
	North.	South.	Total.	North.	South.	Total
Gatun Pedro Miguel	95	113 101	203 196	112	127 127	239 239
Miraflores	96	107	203	112	127	239

All lockages, including Army and Navy vessels, those of the Panama Railroad and The Panama Canal, are included in the following statement of lockages for March

Lockages.	Gatun	Pedro Miguel	Miraflores.
Commercial. Noncommercial, Army and Navy. Noncommercial, Canal equipment.	1 6	196 6 26	203 6 17
TotalVessels.	221	228	220
Commercial. Noncommercial, Army and Navy. Noncommercial, Canal equipment.	239 20 26	239 22 55	239 24 47
Total	285	316	310

The total consumption of water for lockages during March was 1,541,890,000 cubic feet. The consumption by locks was as follows:

	Gatun.	Pedro Miguel.	Miraflores.
Lockage. Leakage Maintenance.	20,000,000	Cubic feet. 705,760,000 16,770,000 119,030,000	Cubic feet. 726,590,000 15,000,000
Total	856,130,000	841,560,000	741,590,000

### METEOROLOGY.

Although not the driest March of record, rainfall was generally below norma everywhere except along the Continental Divide where there was a slight excess totals ranging from 0.02 inch at Miraflores and Darien to 1.92 inches at the Chillibrillo The greatest daily precipitation recorded was 0.73 inch at Juan Mina on the station. The greatest daily precipitation reconed was 0.61 inch, compared 25th. The estimated rainfall over Gatun Lake watershed was 0.61 inch, compared 25th. The estimated rainfall over Gatun Lake watershed was 0.61 inch compared to 100 inch over the Charges River basin above with a 10-year mean of 0.81 inch; and 0.60 inch over the Chagres River basin above Alhajuela, compared with a 19-year mean of 1.08 inches. The Chagres River discharge at Alhajuela was 45 per cent below the 19-year March average, or 410 c. f. s against a mean of 739 c. f. s., and furnished 69 per cent of the Gatun Lake total yield; the discharge this month being the second lowest of record for March, the minimum of 382 c. f. s. occurring in 1912; The maximum Chagres River March discharge for the 19 years of record was 1,625 c. f. s., in 1910.

The Gatun Lake watershed total yield was the lowest March yield of record, being 49 per cent below the 10-year mean, or 594 c. f. s. against a 10-year mean of 1,611 c. f.s. Although water consumption at the Gatun hydroelectric station was reduced to approximately 50 per cent of the usual draft by utilizing Miraflores steam plant for generating load, there was a decrease in Gatun Lake storage of 4,950,000,000 cubic feet for the month. This reduction in water consumption saved approximately 1,890,000,000 cubic feet for the month, equivalent to 0.4 foot on Gatun Lake. Due to the diminished total yield and the excessive evaporation for the month, the net yield was -385 c. f. s., the lowest of record for March. The maximum net yield for the month was 1,250 c. f. s. in 1911. The lake varied from a maximum elevation of 84.64 on the 1st to a minimum of 83.47 on the 31st.

Six slight seismic tremors were recorded during the month, on the 4th, 6th, 7th 15th, 16th, and 20th. Two light shocks were felt at Balboa Heights and vicinity on the 15th and 18th, respectively; that of the 18th was of close origin, 53 miles distant as indicated by the seismograph trace, and while its rapid movement caused it to be generally felt, the amplitude was too small to cause any damage.

### ELECTRICAL DIVISION.

Gatun hydroelectric station-There were no service interruptions at this station during the month. In order to conserve water supply in Gatun Lake, part of the load of this station was transferred to the Miraflores steam plant. Sufficient generating capacity was kept on the line at the hydroelectric station to carry the balance of regular load and handle load swings and peaks. The gross output of the station for the month was 2,504,200 KWH. on a computed water consumption of 2,118,014,900 cubic feet.

Miraflores steam plant—About 4,000 KW was transferred to this station. The grossoutput was 2,928,590 KWH. The oil consumption amounted to 16,988 barrels The average net generated output per barrel of oil for the month was 169 KWH.

Total power output—The total gross output of both stations was 5,432,790 KWH, the total power distributed to consumers was 4,752,618 KWH. The total loss of power plant auxiliaries, transmission, and transformation was 680,172 KWH, or 12.5 per cent of the gross output.

Transmission line—There were no interruptions to service during the month

The painting of the towers was 95 per cent completed.

Substations-There were 9 interruptions occurring at the substations; 2 at Cris tobal, 6 at Miraflores, and 1 at Balboa, aggregating a delay in service of 3 hours, 45 minutes With the exception of one interruption of 30 minutes at the Cristobal substation, all were due to feeder troubles.

New construction work-The various items of new construction work handled by this division during the month had the status shown in the following statement, or

March 31:

Substations.

	*55 * 8
Northern District.	
Installation of electrical equipment, Pier 6, Cristobal	<b>#QQ</b>

*No work done during month.

Marine work—This division repaired and installed miscellaneous electrical equip ment on 62 vessels during the month; 33 at Cristobal, and 29 at Balboa.

Delays in progress on many of the items were due to lack of material on order, and in some instances to the fact that structures had not advanced to a stage permitting

further electrical work.

The construction work performed for the Army and Navy is covered in a separate port. There were 351 work orders issued for work to be performed by the different ections of this division during March.

### SHOP, FOUNDRY, AND DRY DOCK WORK.

Fires were lighted under the boilers of the steamship Cristobal for the first time on March 9. On the 10th various auxiliaries were tried out by steam. Dock trials of the main engines were made from the 11th to the 13th, and successful sea trials of the vessel run on the 21st. At the end of the month the ship remained at Balboa for unfinished work in the passenger spaces.

The oil-burning installation on the steamship Acajutla was completed, sea trials run, and the ship turned over to the owners on the 19th. This ship was received at the Balboa plant on December 4, 1919. Extensive overhauling work on the Peruvian cruiser *Lima* and of the machinery of the *Western Cross* were in progress at Balboa during the month; the work on the *Lima* was completed.

The Mechanical Division, Balboa plant, rendered assistance in extinguishing the property of the description of the state of the control of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t

are occurring on board the steamship Olockson on the 13th; cutting holes in the side of the hull for sinking the vessel and later making preparations for salvaging the cargo and vessel. This work was conducted on much the same lines as that on the steamship Marne originally sunk in Cristobal harbor on January 24, sinking again after being moored at the Cristobal docks, on March 6. Salvaging on both vessels progressed as rapidly during the month as conditions permitted. The Olockson with fire in her holds and above decks was towed from a point at sea off Morro Puercos beyond Cape Mala, to Changarme Rock in the outer harbor at Balboa and sunk there at a depth which left the decks awash at high tide. It was found extremely difficult to extinguish the fire from the cargo of gasoline, and hazardous as well. The ship was sunk at Changarme Rock on the 17th and despite all possible efforts the fire was not finally extinguished until the 21st. At the depth at which the ship lay, it was considered that with vigorous pumping she would float at high tide. It was necessary to have the cargo winches of the ship overhauled at the Balboa shops and also to replace her cargo booms, so that her own gear could be utilized in removing the cargo This preparatory work consumed so much time that no cargo could be removed from the Olockson during March. Salvaging of the cargo of the steamship Marne at Cristobal was continued during the month, The Panama Canal performing the work and turning the salvaged material over to the ship's representatives on the Isthmus

The concrete ship, Cape Fear, was repaired at the Cristobal shops. This involved unusual methods, as the damage had been sustained to the ship's side several feet below the water permitting leakage into the hold. The repair was effected by fitting and installing a cofferdam of wood. The damaged portion of the hull's side was cut and after the installation of stockets and control of the ship's side was cut out and after the installation of steel reinforcing rods, fresh concrete was poured It was necessary to keep the cofferdam in place for 5 days after pouring to enable the concrete to reach the proper condition for carrying the water possing to enable ship's side. The Cristobal shops conducted the repairs to the steamship *C*–34, steamship *Jamaica*, and steamship *Colon*; these consisting of the overhauling of the main engines and auxiliaries, and calking of the hull of the C-34, the general overhauling of the engines and auxiliaries and repairs to the underwater part of the hull of the Jamaica, and reboring the low-pressure cylinder of the port main engine and making new piston and rod for the Colon. The engine and boiler repairs on the tugs, Porto Bello, Tavernilla, and U. S. Supply Boat No. I were also completed at the Cristobal plant. In addition, the following vessels received miscellaneous repairs at Cristobal U. S. S. Henshaw, McCauley, Moody, R-23, R-24, R-25, Undaunted, Army transport Northern Pacific, and mineplanter Graham; Panama Railroad vessels Achilles

Allianca, Ancon, Caribbean, General Ernst, General Gorgas, and Ulysses; commercial steamships Abangarez, Aberdeen, Acajutla, Alberta, Alta, Ambridge, Astmacho III. Aysen, Baladan, Bologna, C-42, C-44, C-43, C-50, Cajacet, Calamares, Cauca, Cartago, Clackamas, Coulee, Delanson, Delft, Ecosse, Egremont, Eglantine, Guatemala, Haiti, Lake Cathcoon, Lake Elkwater, Lake Festina, Lake Glasgow, Lake Licoco, Lake Lida, Lake Maurepus, Larne, Lorraine, Louvelle. Mantaro, Metapan, Mexico. Marshfield, Marne, Mulpua, Newport, Oriana, Poc, Peru, Port McAurrie, St. Andre, Santa Leonora, Sachem, Sardegna, San Juan, Salmon, Steelmaker, Tampa, Tulsa, Texarkana, West Coyote, West Henshaw, Westmoreland, and Yarmouth; schooners W. H. Marston and Arabia; yacht Kemah; tug Engineer; barges; air compressor barge No. 20, barges Nos. 1 and 2, Arien, and crane boat La Valley; launches Activo, Capron, Cutter, Dixie, Mary B. Nard, Pequeni, Putnam, and Wilhelm. Ten vessels were drydocked at Cristobal viz., Jamaica, Poe, C-34, Cyrus W. Fields, Major A. G. Forse, schooner W. II. Marston, tugs Coco Solo and Supply Boat No. 1, Panama Railroad barges Nos. 1 and 2.

In addition to those already mentioned, the following vessels were repaired at Balboa shops and dry dock: U. S. S. McCauley, Moody, Scotia, Tacoma, destroyer Sinclair, submarine chaser V-12, R-275, and R-284; commercial steamships Ambridge, Anita, Benjamin Brewster, Caddo, Cantabria, Cheron, Clackamas, Cordelia, Coulee, cruiser Lima, Culburra, Diablo, Gen. H. F. Hodges, Grayson, Juneau, Kiyo Maru, Lady Sybil, Lake Capens, Lake Cathcoon, Lake Fabyan, Lake Fibre, Lake Filbert, Mark, Lady Syoth, Lake Capens, Lake Cantoon, Lake Paoyah, Lake Pitore, Lake Pitore, Lake Fitch, Lake Fithian, Lake Flymus, Lake Garza, Lake Stobi, Laura C. Hall, Orotina, Rosalie Mahoney, San Juan, Santa Paula, S. V. Harkness, West Cape, West Henshaw, Westboro, Westmoreland, and Woodara. Twelve vessels were drydocked at Balboa, as follows: U.S.S. R-27; steamships Benjamin Brewster, Cristobal, Lake Flynus, and Lady Sybil; cable ship Relay; cruiser Lima, tugs Empire and La Boca; dredges Cascadas and No. 86; and Panama Railroad barge No. 13.

The output of the Mechanical Division in patterns, castings, and foundry production for March, as compared with the February production, is shown, as follows:

•	March.			February.		
Iron Steel Brass.	34 50	3,157 1,383	Pounds. 94,371 55,439 9,460	Patterns. 55 19 48	Castings. 1,687 773 2,357	Pounds. 58,893 32,006 21,533
Total	128	5,576	159,270	122	4,817	112,432

The ordinary monthly repair and maintenance work of the Mechanical Division included among other items the following:

Cars repaired	,712
Locomotives and cranes repaired	973
Passenger coaches packed, cleaned, oiled, and inspected	.589
Freight cars repacked	230
Locomotives hostled	
Cranes hostled	
Locomotives ridden.	
Locomotives inspected.	69
Crews instructed in handling locomotives.	
Crews instructed in oil and fuel economy.	27
Crews instructed in air brakes	15
Cranes, locomotive, inspected	25
Cianes, focumetive, inspected	20

### BUILDING CONSTRUCTION.

The different items of construction by the Building Division during March are shown as follows with the status of completion at the end of the month as indicated:

		cent
		pleted.
Moving 7 type-15 houses and 1 type-7 house, from Las Cascadas to Pedro Miguel		 100
Installation of third unit, Gavilan Island incinerator		 100
Colon stables:		
Four stables.		100
		80
One stable	• • •	
One stable		60
Three wagon sheds		 100
Two wagon sheds.		 25
One latrine.		75
Feed room and quarters.		70
		100
Shop building		
Deposit pits		 95
Silver townsite, Mount Hope:		
Commissary		 50
Eight married quarters		7
		60
Two married quarters		45
Two married quarters		 45

Silver townsite, Mount Hope—Continued. Four married quarters	con	
Two married quarters		
Two married quartersCristobal incinerator		
Combination shop and storehouse. Cristobal		
Royal Mail Steam Packet Company's office, Cristobal:		
Excavation		. 95
Foundation walls for first floor		. 90
Rough plumbing		
Moving 3 type-7 houses from Las Cascadas to New Cristobal		. 25
National Catholic War Council building, Balboa		. 5
Bake shop, work room, and storage room building, Ancon Hospital		
Moving old police station from Las Cascadas to Gamboa		
Converting old kitchen, Ancon Hospital, into family apartments		
Converting Section F, Ancon Hospital, into family apartments		. 100
Converting different wards, Ancon Hospital, into family quarters:		
Ward 17.		
Ward 18.		
Ward 19.		
Moving building 210 and converting into maids' quarters		
Playshed, Pedro Miguel		
Playshed, Gatun		100
Freid unite, Fataiso, Dieuging Division		100
Freight and rest room, Frijoles		
Manufacturing 44,000 feet sectional drain tile		
aranmacturing 44,000 rect sectional drain tile		. 30

The construction work performed by the Building Division for the Army and Navy is separately reported.

### DREDGING DIVISION.

The channel conditions in front of Cucaracha Slide, following the slide of February 22, improved daily during the first part of March due to the operations of the dredging fleet. On March 12 there was another movement of the slide. That night and the two days following approximately 120,000 cubic yards of material moved into the prism, reducing the channel to a minimum depth of 30 feet over a width of 75 feet along the west side of the Canal. Between this date and March 19 the channel was widened from the west prism to the center line, on which date a channel of 35 feet in depth, over a width of 150 feet was available.

On the 20th another movement occurred, when approximately 170,000 cubic yards of material moved into the Canal, reducing the channel to a minimum depth of 15 feet over a width of 60 feet. This closed the Canal to all shipping for 4 days (March 21-24, inclusive). By the end of the month the channel extended from the west prism to the center line, a width of 150 feet, with a depth of 35 feet; while there still remained about 180,000 cubic yards in the prism between stations 1805 and 1814.

East and West Culebra Slides showed no movement during March. A small surface movement continued throughout the month at Barge Repair Slide.

The total excavation by dredges during March was 417,525 cubic yards, as follows

Cubic yards.	Classifi	ed as—	Character	Stations.	Equipmen1
Ouble Jul an	Earth.	Rock.	of work.	NO COLO MAS	Equipmen
(a) 20,200 (a) 127,600 (a) 116,000 (b) 60,000 (c) 50,000 (c) 11,100 (d) 18,725	8,100 38,300 46,400 60,000 13,900 50,000 11,100 Sand. 18,725	12,100 89,300 69,600 Gravel.	Maintenance Maintenance Maintenance Maintenance Maintenance Maintenance Maintenance Maintenance Maintenance	Cucaracha Slide.  1805-00 to 1813-00.  1805-00 to 1813-00.  1805-00 to 1813-00.  2127-00 to 2102-00.  Opposite dock 6, Balboa.  Dock 6, reloader wharf, Balboa (P. 1-40).  Dock 7, unloader wharf, Balboa (P. 1-34).  Chagres River gravel beds.	No. 83. No. 84. No. 84. No. 84.
	aillard Cut		) Pacific entrance.	(c) Balboa inner harbor. (d) Chagres Rive	er.

The material excavated was dumped as follows:

	Cu. yas.
Gatun Lake north of Gamboa	242.300
Canal prism south of Cucaracha Slide.	21 500
Calai prisit of Carata Sideria	125,000
Flats west of Canal	133,009
Gamboa gravel plant	18,725

The following excavation remained to be done on April 1:

Location.	Earth.	Rock.	Total.
Gaillard Cut	Cu. yds.	Cu. yds. 25,000	Cu. yds. 25,000
Pacific entrance.	50,500	86,900	137,400
Total Canal prism. Cristobal coaling station.	1	111,900	162,400 2,100
Balboa inner harbor	116,850	13,400	130,250
Total, ocean to ocean	167,350	127,400	294.750

### MUNICIPAL ENGINEERING DIVISION.

### Northern District.

This division had the following items of construction work under way during March, with the progress on April 1 as shown:

	Per cent
Grading, fill, and general municipal work for new silver townsite, Mount Hope:	completed.
Fill and grading	100
Water lines	99
Streets and roads	99
Source anitory	99
Sewers, sanitary	92
Sewers, storm	98
Sidewalks	(*)
Municipal work between 6th and 9th and "G" and "K" streets, Colon:	100
Poods Work between our and 9th and G and K streets, Colon:	
Roads	65
Grading	15
Water lines	75
Alleyways	55
Sanitary sewers	75
Storm sewers.	(†)
Municipal work, New Cristobal townsite:	
Grading	15
Roads	15
Water lines	25
Sanitary sewers	65
Sidewalks	(*)
I wo tennis courts, Gatun	60
Municipal work for west half, Colon stables:	
Grading	85
Roads	20
Water lines	95
Saritary sewers	85
Road to new incinerator, Mount Hope	10

^(*) Not started. (†) Started.

No work was done during the month on the ten 12-family silver quarters at Mount Hope.

### Southern District.

			cent oleted.
2			
Storm sewer, Javillo fill	 		*99
Sewers, Northern Avenue to beach			00
Daw again Danier Dalland and	 		99
Box sewer, Panama Railroad yards	 		30
Road from lumber shed to Diablo Hill			80
Demolition of Calidonia Bridge.	 ٠.	• •	50
Committee Decarding Disage	 		30
Concreting Panama Tramway line, Calidonia crossing	 		5
Municipal work for 3 type-17 houses, Balboa			*60
Industrial track between buildings 8 and 14, Balboa shops	 ٠.	• •	*99
industrial track between buildings o and 14, Barboa snops	 		
Sewer and water lines for C. & S. A. Telegraph Company, Balboa	 		*90

^(*) No work done.

Construction work performed by the Municipal Engineering Division for the Army and Navy is separately reported.

The total output of all pumping stations for March was 883,393,100 gallons; and that of the three filtration plants, 532,335,000 gallons. Panama City was furnished with 83,552,000 gallons, and Colon with 51,818,075 gallons. Sales of water to 300 vessels totaled 14,076,880 gallons.

The third unit of the Gavilan Island incinerator was completed and turned over to this division during the month for operation. There were 2,775 tons of garbage and 35 dead animals consumed at this plant in March.

### WORKING FORCE.

### (Effective March 24, 1920.)

Department or Division.	Gold.	Silver.	Total.
Operation and Maintenance: Office. Building Division. Electrical Division. Municipal Engineering Division Lock Operation. Dredging Division Mechanical Division. Marine Division Fortifications.	35	42	77
	421	1,382	1,803
	261	401	662
	114	1,628	1,742
	167	585	752
	163	1,034	1,197
	1,102	1,786	2,888
	147	453	600
	51	247	298
Total Supply Department: Quartermaster Subsistence Commissary Cattle Industry Hotel Washington	2,461	7,558	10,019
	218	1,909	2,127
	43	435	478
	322	1,594	1,916
	32	838	870
	11	98	109
Total. Accounting Health Department. Executive Department	626	4,874	5,500
	249	10	259
	249	910	1,159
	559	240	799
Total. Panama Railroad: Superintendent. Transportation. Receiving and Forwarding Agent. Coaling Stations	1,057	1,160	2,217
	80	550	630
	146	177	323
	110	2,201	2,311
	95	1,140	1,235
Total	431	4,068	4,499
Grand total	4,575	17,660	22,235

The total gold force on March 24 was 328 more than the 4,247 on February 4, and the silver force was 571 less than the 18,231 working on that date. As compared with the gold force for the corresponding period of last year, reported as of March 19, 1919, the present force is an increase of 1,028 over the 3,547 employed on that date. and the silver force 267 more than the 17,393 on the payrolls of the same date.

### OCCUPATION OF QUARTERS.

The statement following shows the occupants by numbers, as classified, of Panama Canal and Panama Railroad quarters on March 31:

	Men.	Women.	Children.	Total.
Americans. Europeans. West Indians.	3,713 211 4,843	2,233 41 1,543	2,595 60 2,963	8,541 312 9,349
Total	8,767	3,817	5,618	18,202

### PUBLIC HEALTH.

There were 59 cases of malaria, 27 of which were nonresident, reported during March, with no deaths. There was an epidemic of influenza on the Isthmus during the month; 801 cases were reported, 29 of which were nonresidents; 50 deaths resulted for 21 of which the cause was given as influenza, and 29 as pneumonia. Effective March 14, all assemblages of more than 20 persons in the Canal Zone and terminal cities, were prohibited; this prohibition was lifted on March 28, leaving certain restrictions, however, on moving-picture theaters, and similar assemblage places. Two cases of smallpox, both nonresident, were reported. There were 63 cases of chickenpox reported. Five cases of typhoid fever were reported, 3 of which were nonresidents; 1 death occurred from typhoid fever.

### RECEIPTS AND SALES OF MATERIALS AND SUPPLIES.

Material ordered on United States requisitions was received during March in the total amount of \$546,820.66; February receipts were \$530,558.37. Of the March receipts, \$503,423.21 was chargeable to operation and maintenance; \$34,082.57 to construction and equipment; and \$9,314.88 to miscellaneous departments. Cash sales on the 1sthmus from storehouses and obsolete store amounted to \$160,417.75, of which \$157,774.32 was for stock material, \$2,263.18 for scrap, and \$380.25 for obsolete and second-hand material.

The total sales of material from storehouses to steamships for March was \$133,509.58, of which \$32,056,92 was for stock material, and \$101,452.66 for fuel oil. Sales of commissary supplies to all purchasers for March totaled \$1,078,280.66, made up as follows: To steamships other than United States Government vessels and those of the Panama Railroad Steamship Line, \$110,240.52; to The Panama Canal, \$153,439.20; to the United States Government, including the Army and Navy, \$193,781.12; to individuals and companies, mainly through charge accounts in the retail commissaries, \$25,614.04; to the Panama Railroad, including its steamships and the Hotel Washington, \$32,769.99; and to individuals purchasing coupons, \$562,877.87.

### FINANCIAL RECEIPTS AND EXPENDITURES.

The cash balance in Canal appropriations on March 31, exclusive of Fortifications, was \$13,624,043.66; the balance in Fortifications was \$5,647,407.22. Payments from appropriations made by the Disbursing Clerk, Washington, amounted to \$1,054,-353.17, and by the Paymaster on the Isthmus to \$1,496,340.48. Purchases of commissary books from the Panama Railroad Company amounted to \$355,532.22.

Collections of tolls on the Isthmus totaled \$831,411.05. Deposits of \$128,864.75 were made with the Assistant Treasurer of the United States in payment of tolls and other charges against vessels using the Canal. The total Panama Canal collections on the Isthmus were \$2,689,538.83; and collections by the Disbursing Clerk, Washington, \$27,034.56. Receipts from Canal Zone and miscellaneous funds were \$234,-319.53; disbursements from the same source were \$240,124.53. March payrolls on the Isthmus aggregated \$1,333,885.74, as compared with \$1,234,831.34 for February, an increase for this month of \$99,054.40.

Respectfully,

CHESTER HARDING,

Governor.

### Rebuilt "Cristobal" Sails with Cargo.

The steamship *Cristobal* of the Panama Railroad Steamship Line, which has been rebuilt by the Mechanical Division of The Fanama Canal, sailed for New York on May 2, carrying 10,085 tons of cargo.

The *Cristobal* was sent to Balboa shops in May, 1919, for general reconstruction. Every part that was worn was replaced, from hull plates to railing around the deck. The system of coal-burning boilers was changed to oil burners, with a general reconstruction of the burner and boiler spaces. New boilers were installed, and all worn parts of the engines, main and auxiliary, replaced with new. The capacity for cold storage was increased to over 13,000 cubic feet. Passenger accommodations were renovated and increased; she can now accommodate approximately 150 first class passengers.

New smoking room, social hall, and dining room were built, and finished throughout in *caoba blanca* or the light mahogany of Panama. This is a kind of wood never used prior to 1917 and unknown commercially, outside of the local uses on the Isthmus and in the shops of the Canal. It possesses an unusual beauty in grain and color, and offers an excellent surface for the most artistic finish in cabinet work. Practically all of the ship above the main deck is entirely new.

The *Cristobal* is a ship of 9,332 gross tons, 489 feet 6 inches in length by 58 feet beam and 28 feet 10 inches depth. She was built in 1902 at Sparrows Foint, Md., and purchased in 1909 by the Panama Railroad Steamship Line for \$850,000. To-day her value is estimated at around

\$3,000,000.

After the completion of the installation of furnishings in New York, the *Cristobal* will go back on the run of the Panama Railroad Steamship Line between New York and the Canal Zone.

Distribution Among Ports of Cargo Passing Through the Canal From Pacific to Atlantic, March, 1920.

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ore,	Baltimo Md.	3,000										2,413	3,112							8,810	17,335
·mo	United Kingd								8,175		1,971										10,146
.,	пэрэмд								5,700												5,700
l , mai	Rottere												5.623								5,623
lles,	Marseil Joner4																		3,418		3,418
	nisdein. Gpsin.	3,410																			3,410
,loc	Liverpo Englar				5,132							5,438				9,791					20,361
, bin	London				746				8,000			5,297	11,000		6,921				9,876	11,779	75,923
e. lice, e. lice, md.	La Pall							000,7													7,000
	Havre, France												9 248			6,300					8,548
,16	distdiD nisq2													1,625							1,625
	Genoa, Italy.																	8 875			8,875
, , , , , , , , , , , , , , , , , , ,	Dunkirl Franc								8,025												8,025
, x	Bordeau France		5,042																		5,045
im.	qiswtaA viylsA	11,400															9,024				20,427
Distribution with	From—	Antofagasta, Chile.	Buenaventura, Colombia Caleta Buena, Chile	Callao, Peru. Caleta Colosa, Chile.	Champerico, Guatemala Coquimbo, Chile	Everett, Wash. Gray's Harbor, Wash.	Guayaquıl, Ecuador. Hongkong, China.	Ідиідие, Сіпіе Коре Лапап.	Lyttleton, New Zealand. Meijlones, Chile.	Mollendo, Peru.	Portland, Oreg	Por Tire, Australia. Puntarenas, Argentine.	Salaverry, Feru San Francsoc, Cal Seartle West	Supe, Peru. Singanore Straits Settlements	Sydney, Australia.	Talcahuano, Chile	Tocopilla, Chile	Tumaco, Colombia. Valuaraiso, Chile	Vancouver	Victoria, British Columbia. Wellington, New Zealand.	Totals

of Cargo Passing Through the Canal From Pacific to Atlantic, March, 1920. - Continued,

	<b>Is</b> toT	39, 444 11, 460 11, 46	466,043
	Santiago,	006'2	2,900
	Nipe Bay, Cuba.	1,865	1,865
Continued	Cristobal, Canal Zone.	1,549 6,711 3,510 2,679 7,849 7,849 10,288 10,288 10,288 10,770	59,705
1	Wilmington,	3,002	5,630
Marcn,	Savannah, Ga.	3,452	12,441
Atlantic, I	Pensacola, Fla.	3,350	3,350
2	Norfolk, Va.	3,250	9,065
m Pacing	N. Y.	3,200 7,785 1,625 8,297 8,297 8,954 10,400	81,440
Canal From	New Orleans, La.	3,000 8,175 8,175 3,018	31,355
the	Mobile, La.	953	925
Through	Galveston, Tex.	10 10 60 60	3,375
assing	Дејамате Вічет.	88	8,158
Cargo P	Charleston. S. C.	17,500 11,807 7,007 3,062	39,376
Distribution Among Ports of Cargo Passing	[From—	Antofacasta, Chile Ariea, Chile Buenareattra, Colombia Callao, Peru. Callao, Peru. Callao, Chile Callao, Chile Callao, Chile Callao, Chile Callao, Chile Champerico, Guatemala, Coquimbo, Chile Everett, Wash Guaya Shahor Caya Shahor Chile Champerico, Chile Champerico, Chile Champerico, Chile Champerico, Chile Champerico, Chile Champerico, Chile Champerico, Chile Champerico, Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chi	Totals

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	Iquique, Chile.	7.360	4,360	.letoT	8,800 8,800 8,800 8,800 14,500 11,500 11,350 13,940 14,838 13,841 1445
	Coronel, Chile,	5 553	6,998	Vladivostok, Siberia.	
	Antofagasta, Chile.	4	7,630	P.C.	
1920	Singapore, Straits Settlementa	5 046	5,046	San Fran- cisco, Cal.	8,300 6,150 1,500 2,992 4,950
March, 18	Yokohama, Japan.	41,772 111.305 8,005	61,082	Honolulu, Hawaii.	
Pacific, M	Osaka, Japan.	7,700	7,700	Champerico, Guatemala.	990
2	Nagasaki, Japan.	7,384	7,264	Balboa, Canal Zone.	
n Atlantic	Kobe, Japan.	8,000 18,083 8,510 4,200	38,793	Guayaquil, Ecuador.	23.645
iai From	.aeget	8,000	8,000	Salaverry, Peru.	
the Canal	Shanghai. China.	23,255	23,255	Callao, Peru.	1,590
nrongu	China.	8,600 1,900 8,202	10,102	Buenaven- tura, Col.	3,637
rassing Inrough the	Wellington, New Zealand.	2,790 6,941	9,731	Valparaiso. Chile.	885 2,766 1,350 1,187 5,804
Cargo r	Sydney, Australia.	7,200	15,900	Tocopilla, Chile.	3,500
r or ts or	New Zealand.	300	5,983	Taltal, Chile.	
Allionis r	Lyttleton, New Zealand	25.663	25,663	Taleabuano, Chile.	
מווסוו ש	Brisbane, Australia.	4,246	4,246	Pisagua, Chile.	
Castan	Auchand, New Zealand	27, 104	27,104		
	From—	Amsterdam Netherlands Baltwere, Mei- Baltwore, Mei- Breumont, Tex- Brodeau, France Boston, Mass. Cristobal, C. Z. Genca, Italy Golhenburg, Sweden Liverpool, England London, England London, England New Port, News, Va New Port, News, Va New Port, Va New York, N. Y Norfolk, Va Philadelphin, Pa Port Arthur, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex- Sabaine, Tex-	Totals.	From—	Amsterdam, Netherlands, Antwerp, Belgum Baltimore, Md Beaumont, Tec. Bordeaux, France Gristoball, C. Z. Genoa, Italy. Gothenburg, Sweden Liveptool, England London, England London, England London, England New Orleans, La

### Luckenbach Coastwise Service to be Reestablished.

Advice has been received from the Luckenbach Steamship Co., Inc., that it will shortly establish a service between the Atlantic and Pacific

coasts of the United States.

When the Canal was opened the Luckenbach Company became one of its most important users, operating principally in the United States coastwise trade, later in traffic to Australia and New Zealand and the Far East, but subsequently its vessels were transferred to the transatlantic trade, and by the autumn of 1917 the company's use of the Canal had practically ceased. In February, 1918, the *Hattie Luckenbach* made use of the Canal, and 2 years later, in February, 1920, the *Edgar F. Luckenbach* passed through on the way to Chile in ballast, returning through the Canal on March 9 with 11,807 tons of nitrate for Charleston. Details of the new coastwise service have not been given.

### Six Passenger Steamers to Be Added to Genoa-Valparaiso Service.

The Transatlantica Italiana and the Societa Nazionale di Navigazione, with head offices in Genoa, announce that passenger service will be established in a short time over the route between Genoa and Valparaiso by way of the Canal. Six steamers, the Cesare Battisti, Nazairo Sauro, Leonardo da Vinci, Guiseppe Mazzini, Francesco Crispi,

and Ammiraglio Bettolo, will be used in the passenger service.

Other vessels of these companies which have passed through the Canal to date have been the Ansaldo San Giorgio I, Ansaldo San Giorgio II, Ansaldo San Giorgio III, Nicolaos, Ansaldo I, Ansaldo III, and Ansaldo V. The route is from Genoa via Marseilles, Barcelona, Cadiz, Tenerife, Trinidad, La Guaira, Puerto Cabello, Curaçao, Puerto Colombia, Cartagena, Cristobal, Balboa, Guayaquil, Mollendo, Arica, Iquique, and Antofagasta to Valparaiso. The homeward voyage is over the same course with calls in reverse order. Sailings definitely scheduled for the remainder of this year are for May 16, July 1, August 15, September 30, November 15, and December 30, from Genoa.

### Completing Shipment of Old Canal Equipment to Alaska.

The steamship Anyox, with the barge Baroda in tow, cleared from Balboa for Anchorage, Alaska, in the afternoon of May 1, with full cargoes of railroad equipment for the Alaska Engineering Commission. The Anyox was loaded with 987 tons in 3,245 pieces, and the Baroda with 1,904 tons in 283 pieces, a total of 2,891 tons. This material was used in the construction of the Panama Canal and its terminals, and after being retired was placed in condition for sale. Six car bodies and 55 trucks, for Lidgerwood cars, loaded on the Baroda, were removed on account of making the deck load topheavy, and left behind; they are all that is left of the equipment destined to Alaska.

### Examination for Panama Canal Service.

Board of Civil Service Examiners makes the following announcement:

On Sunday, May 16, 1920, there will be held an examination for the position of junior engineer in The Panama Canal service. The examination will be held in the board room of the Administration Building, and will begin at 9 a. m. This examination is open to all recorders, surveyors, and draftsmen.

For information concerning this examination, apply to the Secretary of the Local

Board, Balboa Heights, C. Z. (telephone, Balboa 286).

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight May 1, 1920. THOOUGH THE CANAL -- ATLANTIC TO PACIFIC.

	Canal	Net	9,590	5,858	3,503	6,092		4,866	1	4,735		105	759	2.537				4 391	* ~	4.0		4,039		1,000		1,001		A 727	M ALC	903.6	4.594		6.653		}	4.708			5,545		
	Panama Canal Tonnage	Gross	2,852	7,489	4.655	8,174	6,189	6,571		6,528	:	441	1 941	3,639	600	7,440	120	5 067	2,007	2,842	4,040	6,234	4/5	9,943	999	0.00%	700,7	002 0	0.00	0,00	7,000		9 403	1,187	1140	6.530	11,365	:	7,443		
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	į	Cargo	General		Coal		Coal	General, gasoline		General			Conone	General	:	:	-	General	ŭII	General	General	General	:	General	:	:	Ceneral		:	, general	Coal			D. Constant		_	General coal.		Crude oil	General	
	1	For	Anckland				Meillones	Yokohama		Yokohama	Balboa	Ionione	Cominto	Velperaiso	T animara	Iduidne	Auelande	Buenaventura.	Shanghai	Valparaiso	Valparaiso	Guayaquil			Iquique	Tocopilla	San Francisco.	balboa	Antotagasta	San Francisco.	Mejiliones	l-daidae	San Diego	Duene montant	Duenaventura.	ZI:15	San Diego	Balboa.	Pisagua	San Francisco.	
		From-	Newport News							New York	Cristobal			_	-	I ampleo					_	_					Cristobal	-					Boston	Chiefala	Cristobal	Dangerole				Baltimore	
		water draft	31.0	16.7	93.4	9.6	8 96	26.2		24	19.0	110	10.0	9.66	200	20.0	25.0	5	24.0	22.0			16.8		14.3	27.9	18.5		14.0	23.3	25.0	14.3	25.0	0.71	0.11	_			27.0	19.0	
		Beam	_'		25		20	53		54.0	31 6	90.00	1 C	Aus	11	54.0	04.0	25.0	51.0	51.6		48.0	26.6	62.6	29.8	57.5	37.0		54.2	5.1°	43.6	51.0	35.0	0770	32.0	1	65.0	99	57	44	
		Length Beam	500 0	410.0	264 0	430.0	407 0	402.6		400.0	390 0	125.0	100.0	210.0	0.000	420.3	425.0	81.0	406.5	360.2	350.4	400.0	1.58.0	460.0	164.0	425.0	283.0		400.7	401.7	251.0	385.0	315.0	400.0	220.0	1	514 0	465.2	419.0	289.0	
THOOOGH THE CANADA ALLENDA		Line	White Stor Line	Thirtod States Shinning Roard	Wolfer Henburn & Co	Nour Zooland Shinning Co	Mitemi & Co	United States Shinning Board	Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Sup	Thited States Shinning Board	Thirtod States Nouve	Duitish Commont	Driefsh Government	Paethe Steam Navigation Co	South American Steamship Line.	C. T. Bowring & Co	Shaw, Saville and Albion Co	Pacific Metals Corporation,	Anglo-Saxon Petroleum Co	W. R. Graee & Co	Pacific Steam Navigation Co	French Steamship Line	German Government	New Zealand Shipping Co	German Government	W. Wilhelmsen	Pacific Mail Steamship Co	United States Navy	United States Shipping Board.	United States Shipping Board	United States Shipping Board	United States Shipping Board	United States Navy	Koyal Netherland Steamship Co.	Pacific Steam Navigation Co	F	United States Shipping Board	Standard Oil Co	Standard Oil Co.	Pacific Mail Steamship Co	
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(a) Destroyer. (b) Tug. (c) Collier. (d) 8,000 barrels.

THROUGH THE CANAL-PACIFIC TO ATLANTIC.

6.267 5.659 4,034 6.000 6.451 4,094 1.507 2.641 1,693 3.150 3.036 2.126 7.336 6.928 5,103 802 1.877 6.22 6.736 6.928 1,741 3.0011.026 7,912 7.0011.026 7,912 7.0011.026 7,912 7.0011.026 7,912 7.0011.026 7,912 7.0011.026 7,912 7.0011.026 7,912 7.0011.026 7,912 7.0011.026 7,912 7.0011.026 7,912 7.0011.026 7,912 7.0011.026 7,912 7.0011.026 7,912 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.0011.026 7,913 7.			For—	Catagean.  New Orleans.  Tampico.  New Orleans and Boeas.  New York and Haiti.  New York and Haiti.
New York Flour Cristobal (o Cristobal (o Cristobal (o Cristobal (o Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal General General Copper		*DEPARTURES.	1	Panama Railroad Cattle ( 'tr', Cartagena. Leylande Steamship Line. 'ro, Wey Orleans. PanAmer. Pet. and Transp. Co. New Orleans and Bot United Fruit Co. New Orleans and Bot W. V. N. Powellson. New Vork and Haint Panama Railroad Steamship Line. New York and Haiti.  Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Colon. Co
1.53.6   Astoria.   23.6   Astoria.   24.7   21.0   Seattle.   24.7   21.0   Clujque.   24.7   21.0   Clujque.   24.1   24.0   Clujque.   24.1   24.0   Clujque.   24.1   24.0   Clujque.   24.1   24.0   Clujque.   25.1   24.0   Clujquil.   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1   25.1			Vessel.	Caribbean Panar M. Manan Leylan B. L. Doheny Panar Parismina Unite Managares W. W. Marabia Gen. Geo. W. Goothals Panar
d. 380.5 d. 380.5 d. 492.1 d. 286.8 d. 499.0 d. 499.0 d. 499.0 d. 499.0 d. 499.0 d. 499.0 d. 499.0 d. 499.0 d. 447.0 d. 248.6 d.	PORT OF CRISTODAL.		Date.	April 25 April 29 April 29 April 29 April 30 April 30
United States S. United States S. United States S. Roland Line British Government States S. Poefic America Poefic America Poefic America Poefic States S. Poefic States S. Poefic States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States P. United States P. United States P. United States P. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. United States S. Un	PORT		From-	New Orleans. New Orleans and Habana New Orleans and Habana. New York and Habana. Colon. New York. Cartagena. Kingston. Philadelphia. High seas. Cape May. New York and Haiti.
25 20 17 25 20 17 American   15 25 20 30 25 22.26 American   15 25 20 30 25 22.26 American   15 25 21.26 American   15 25 21.26 American   15 25 21.30 26 21.00 British   15 27 20 30 25 21.00 American   15 27 20 30 25 21.00 British   15 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 30 20 30 20 30 20 30 20 30 20 30 20 30 30 20 30 20 30 30 20 30 30 30 20 30 30 30 30 30 30 30 30 30 30 30 30 30	hats, and spice.	*ARBIVALS.	Line.	United Fruit Co. United Fruit Co. United Fruit Co. United Fruit Co. United Fruit Co. United States Army. Panama Railroad Cattle Industry. United States Navy. Fanama Railroad Steamship Line.
24 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(f) Coffee, hides,		Vessel.	Atenas. Parismina B. L. Dobeny Abangarez. Arabia. Northern Pacific. Orthern Pacific. O-11, 12, 13, 16 (9). Eagle No. 32 (h). Eagle No. 32 (h).
Otho.  Bastern Pilot.  Bastern Pilot.  Saint Blazey (b)  Wonabbe  Wonabbe  Wonabbe  Windber.  Basiloa.  Basiloa.  Saint Jean.  Mahi.  Cauca.  Athenic.  S. C. 284  Athenic.  S. C. 284  Athenic.  S. C. 284  Athenic.  Bepublic.  Republic.  Tasmania Maru  Gape May.  Palm Barneth.  Ornat.  Palm Barneth.  Palm	(e) For orders.		Date.	4

(9) Submarine. (h) Subtender.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending May 1, 1920.

				Carg	0—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Name of vessel.  Caribbean. Palena. Manavi Atenas. Nubian. Laura C. Hall Chile Maryland. San Jose. Saint Jean. Cauca. Jamaica. Parismina Balboa. E. L. Doheny. Easterner. Gen. G. W. Goethals. City of Alma. Caribbean. Abangarez. Northern Pacific.	Panama Railroad Cattle Industry. Chilean Steamship Line. Pacific Steam Navigation Co. United Fruit Co. Leyland Steamship Line. Pacific Metals Corporation. Pacific Steam Navigation Co. French Steamship Line. Pacific Metals Corporation. Pacific Steam Ship Line. Pacific Steamship Line. Pacific Steamship Line. Pacific Steam Navigation Co. French Steamship Line. Colombian Maritime Co. Colombian Maritime Co. Colombian Maritime Co. United States Shipping Board. Panama Railroad Steamship Line. United States Shipping Board. Panama Railroad Cattle Industry. United Fruit Co.	April 26  April 27  April 27  April 27  April 27  April 27  April 27  April 27  April 27  April 27  April 27  April 27  April 27  April 29	April 25. April 26. April 26. April 27. April 27. April 27. April 28. April 29. April 29. April 29. May 1. May 1. April 29. April 29. April 30.	70ns.  63½  222  1,500 1,045 802 1,392 617 9,000 7,074  8,283 400 329	Laded.  Tons. 1 1,383 341 1,282 9 883 (*) 1,911 1,917 124 (*) 3,743 (*) 10
Mantaro	Peruvian Steamship Line. Pacific Steam Navigation Co United States Government. Pacific Mail Steamship Co Panama Railroad Steamship Line.	April 29	May 1	1,899 2,314 11 201	(*) 145

^{*} No cargo laded.

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Two Weeks Ending May 1, 1920.

				Carg	0-
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Caoba*. Pedro Christophersen. San Jose. Laura C. Hall. Marico. Lady Sybil. Eelbeck. Jamaica. Balboa Laura C. Hall. Cauca. Kiyo Maru Gustemala. San Jose. Anyox Baroda. Point Lobos. Nika	Caoba Corporation	April 26. April 28. April 29. April 29. April 19. April 19. May 1.	April 22 April 23 April 24 April 24 April 25 April 27 April 26 April 27 April 27 April 29 April 29 April 29 April 29 May 1 May 1	221 187 19 318 1,175 6 1 1	91 26 987 1,904

^{*} Information unavailable for last report.

### May Weather Probabilities.

The following weather conditions may be expected at the Canal entrances during the month of May, 1920. These predictions are based on the weather records at

Cristobal and Balboa Heights for the last 12 and 14 years, respectively:

Winds—The first of May usually marks the beginning of settled rainy season weather. The trade wind belt moves northward at this season of the year and the wind force on the Isthmus is greatly lessened. Compared with April, there is a decrease in wind movement of approximately one-third. Although the prevailing wind direction continues from the north over the Atlantic side and from the northwest over the interior and Pacific side, the percentage of light and variable winds is greatly increased. The average hourly velocity for the month is about 8 miles at Cristobal and about 6 miles at Balboa Heights. A maximum velocity greater than 30 miles an hour is not likely, although higher velocities have occurred during thunder squalls. Rain—Heavy rains may be expected on both coasts and over the interior. The

Rain—Heavy rains may be expected on both coasts and over the interior. The monthly average rainfall at Cristobal is 12.60 inches and at Balboa Heights, 8.46

inches. About 22 days with rain (0.01 inch or more) may be expected on the Atlantic Coast and 20 on the Pacific Coast. The average number of days with 1 inch or more has been 2 on the Pacific Coast and 5 on the Atlantic.

Fogs-No fogs are likely to occur at either Canal entrance. Night and early morn-

ing fogs may be expected quite frequently over the interior. Most of these will be light, however, and will be dissipated before 8.30 a. m.

Temperature—The monthly mean temperature will average about 80° F. on both coasts. The mean daily range in temperature will probably be about 9° on the Atlantic Coast and about 14° on the Pacific Coast. On the Atlantic Coast no temperature higher than 91° nor lower than 71° may be expected while on the Pacific Coast 96° and 69° are the extremes of record.

Relative humidity—'The relative humidity will average about 85 per cent on both

coasts, but the daily range will be considerably greater on the Pacific side.

Storms-No general storms are probable, but thunder squalls may be expected at both Canal entrances. During these storms, comparatively high wind velocities may be attained, but the storms are of too short duration to cause a rough sea. average number of days with thunderstorms on the Atlantic side is 12, and on the Pacific side, 14. Generally cloudy weather may be expected during the month on both

Tides—The tidal fluctuations on the Atlantic side are too small to affect navigation. Balboa tide predictions for May are given below. These are taken from Tide Tables

for 1920, published by the Department of Commerce, Washington, D. C.

	or every publicated by the experience																		
Day	y of-	Time and Height of High				Day	y of-		and He			Day	y of-	Time and Height of High					
w.	Mo.	a	nd Low	Water		W.	Mo.	a	nd Low	Wate	r. 	W.	Mo.	8	ind Lov	v Wate	r.		
S	I	2:33 14.3	8:38 1.5	2:49 15.1	9:08	W	12		10:33 12.5		10:59 11.8	s	23	1:23 0.1	7:47 15.7	1:58	8:08 15.2		
s	2	3 :12 14.5	9:21 1.3	3:28 15:2	9:48 0.4	Th	13		11:37 13.0			М	24	2:23 1.0	8:44 15.1	3:02	9:08		
M	3	3:53 14.6		4:04 15.2		F	14	0:05 12.4	6:16 3.3	12:32 13.9	6:51 2.7	Tu	25	3:26 1.9	9:57 14.5	4:08	10:14 18.6		
Tu	4	4:31 14.5	10:37 1.3	4:40 15.0	10:59 0.4	s	15	0:59 13,3	7:12 2.6	1:21 14.9	7:43 1.6		26		10:55 14.2	5:10 2.8	11:28 13.3		
W	5	5:10 14.3	11:14 1.6	5:19 14.6	11:37 0.8	s	16	1:49 14.3		2:08 15.8	8:34 0.5	Th	27		11:59 14.2	8:11 2.8			
Th	6	5:50 14.1	11:50 2.1	5:56 14.2		М	17	2:34 15.2	8:54 0.8	2:51 18.5	9:21 -0.5	F	28	0:29 13,4		12:54 14.3	7:07 2.5		
F	7		6:29 13.7			Tu	18	3:23 15.9	9:42 0.1		10:07 -1.2	S	29	1:22 13.6	7:22 3.0	1:41 14.6	7:59		
s	8	0:51 2.1	7:09 13.3	1:10	7:12 13.1	w	19		10:28 -0.4			s	30	2:09 13.9	8:11 2.8	2:23 14.8	8:44		
s	9	1:36 2.8	7:50 12.9	2:02	7:54 12.5	Th	20	5:03 16.6	11.17 -0.4	5:21 17.1	11:40 -1.4	М	31	2:50 14.1	$8:56 \\ 2.5$	3:01 14.9	9:25		
M	10	2:28 3.4	8:34 12.6	2:58 4.4	8:44 12.0	F	21	5:57 16.5	12:05 0.0	6:15 16.6									
Tu	11	3:23	9:30 12.4	8:59 4.5	9:47 11.7		22	0:29 -0.8		12:57 0.8	7:10 16.0								

The tides are placed in the order of their occurrence; the times of high and low tides are shown on

The tides are placed in the order of their occurrence; the limes of high and low tides are shown on the upper lines. The figures in boldfaced type are hours and elevations between noon and midnight; ante meridian 75° W.

The elevations of the water are shown on the second line for each day; a comparison of consecutive heights will indicate whether it is high or low water. Heights are reckoned from mean low water springs, which is 8.3 below mean sea level and is the datum of soundings on the Coast and Geodetic Survey charts for this region. The depth of water may accordingly be estimated by adding the tabular height of the tide to the soundings, unless a minus (-) sign is before the height, in which case it is to be subtracted. The annual inequality or variation in the mean sea level is included in the predictions.

Revision of Telephone Directory.

The copy for a revised telephone directory, to be issued as of June 15, 1920, will go to the printer June 1. All changes or corrections in the present directory should be forwarded to the Supervisor of Telephones, Balboa Heights, not later than June 1. Proof corrections will be made to June 6.

### Sunshine and Cloudiness in the Canal Zone.

The degree of daytime cloudiness in the Canal Zone is less during the dry season than in the rainy season, but even in the dry season the sky is by no means cloudless, the average degree of daytime cloudiness being about 50 per cent of the sky obscured in the dry season and about 75 per cent of the sky obscured in the rainy season. There is not the intense unobstructed solar radiation in the Canal Zone that is experienced in dry sections of the United States. The cloudless skies so common in the semi-arid sections of the southwestern United States are practically unknown in the Canal Zone.

March is generally the month of minimum cloudiness in the Canal Zone, while June and November are usually the months of maximum cloudiness and least sunshine. The maximum duration of sunshine occurs during the dry season, usually in January, and the maximum intensity occurs in March or April.

The daytime cloudiness is somewhat greater in the interior and over the Pacific section than on the Atlantic side. The prevailing winds during the greater part of the year blow from off the Atlantic. These winds reach the Isthmus with water vapor mostly uncondensed, and therefore not visible as clouds. In crossing the Isthmus a large part of the water vapor carried by these winds is condensed and becomes visible as cloud, the most effective agents of condensation being the ascending air currents that develop over the excessively heated land surface and the upward deflection of the winds approaching and passing over the Continental Divide. Any increase in elevation of a mass of air, from whatever cause, results in a corresponding decrease in its temperature. When the temperature of the ascending air current has been lowered to the dew point, its invisible water vapor condenses and becomes visible as cloud.

### NIGHT CLOUDINESS.

No actual records are available of nighttime cloudiness, but in general the cloudiness is much greater during the daytime than at night. This is especially noticeable during the dry season, when heavy cumulus clouds form regularly during the daytime, and as regularly disappear with the approach of night.

Over the interior night cloudiness often takes the form of fogs, which are numerous during the rainy season, but which usually lift or dissipate before 8.30 a.m. Few fogs occur along either coast in the vicinity of the Canal Zone.

During the rainy season, night and early morning cloudiness is heavier along the Atlantic Coast, where approximately half of the total rainfall occurs during the night-time.

### MONTHLY EXTREMES.

The maximum monthly daytime cloudiness recorded during any one month of the past 12 years was 93 per cent at Colon in July, 1915, and the least average monthly cloudiness was 30 per cent at Balboa Heights in February, 1918.

The maximum duration of sunshine recorded during any one month was 89 per cent of possible at Balboa Heights in January, 1915; and the least duration of sunshine for any month was 15 per cent at Balboa Heights in May, 1913.

### PREVAILING CLOUD TYPES.

The cumulus form of lower clouds are most numerous during the dry season and the strato-cumulus, stratus and nimbus forms during the rainy season. All of the common types of upper clouds are well represented throughout the year, but in the rainy season they are frequently obscured by the lower clouds.

### COMPARISONS.

Compared with conditions in many sections of the United States, cloudiness in the Canal Zone is relatively heavy, especially during the rainy season; but prevailing rainstorms usually are of short duration, followed by clearing weather and sunshine and the cloudiness is so broken and intermittent that there are very few days with no sunshine. But when general storms visit the Isthmus (such as "northers") there may be periods of 2 or 3 consecutive days with the sun entirely obscured.

The average number of days without sunshine during the past 12 years has been about 12 per year on the Pacific side and 10 on the Atlantic side. The longest consecutive period of authentic record in the Canal Zone without sunshine is about

The average number of clear days per year has been 36 at Balboa Heights and 54 at Colon; partly cloudy days 172 at Balboa Heights and 166 at Colon; and cloudy

days 157 at Balboa Heights and 145 at Colon. A clear day being one with average cloudiness of 3 tenths or less; partly cloudy from 4 tenths to 7 tenths; and cloudy 8 tenths or more.

The following table shows average monthly conditions of cloudiness and sunshine

in the Canal Zone:

### AVERAGE MONTHLY CLOUDINESS AND PERCENTAGE OF POSSIBLE SUNSHINE,

	Cloudiness	-Per cent of sk	y obscured.	Sunshine— possi	Per cent of ble.
*	Balboa Heights. (Pacific Coast.) (13 years.)	*Culcbra. (Interior.) (7 years.)	Colon. (Atlantic Coast.) (11 years.)	Balboa Heights. (Pacific Coast.) (12 years.)	Colon. (Atlantic Coast.) (12 years.)
January. February March April May June July. August September October. November December.	47 51 53 65 78 81 74 77 75 75 73 60	49 50 47 63 77 81 80 78 77 79 80 61	46 47 45 54 72 74 75 75 72 72 72 75 58	75 71 68 50 36 34 39 36 40 41 42 59	73 71 72 65 48 44 47 53 47 44 59
Year	67	68	64	49	56
Dry season	54 74	52 77	48 72	66 41	70 48

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Board of Civil Service Examiners, Balboa Heights (telephone 286):

Research assistant (male and female); \$1,500 a year; June 9, 1920; form 1312; age, 21 years but not 35 years

Specialist in agronomy (male and female); \$1,800 to \$2,400 a year; May 25, 1920; form 2118; age, under 45 years.

Architectural designer (male); \$2.250 to \$3,000 a year; June 1, 1920; form B. I. A. 2 (of November, 1916); age, 25 years but not 40 years.*

Estimator and specification writer (male); \$2,250 to \$3,000 a year; June 1, 1920; form B. I. A. 2 (of November, 1916); age, 25 years but not 40 years.*

Specialist in science teaching (male and female); \$3,500 a year; May 25, 1920; form 2118; age, 30 years and over \$\$

years and over.*

30 years and over.*
No. 184-amended. This announcement cancels announcement No. 129, issued February 13, 1920, of examination for F-1 addressograph operator and automatic 3 addressograph operator.
Automatic 3-A addressograph operator (male and female); Grade 1, \$1,200 to \$1,500 a year; No. 184-amended; May 19 and July 7, 1920; form 304; age, 18 years and over.
Automatic 3-A addressograph operator (male and female); Grade 2, \$1,500 to \$1,800 a year; No. 184-amended; May 19 and July 7, 1920; form 304; age, 18 years and over.
Agent for agricultural education (male and female); \$3,000 to \$3,500 a year; No. 275; May 25, 1920; form 2118; age, under 50 years.*
Assistant engineer (male and female); \$1,500 to \$2,000 a year; No. 2129-amended; August 2, 1920; form 1312; age, 25 years and over.*

Assistant engineer (male and female); \$1,200 to \$1,500 a year; No. 2129-amended; August 2, 1920; form 1312; age, 25 years and over.*

Junior engineer (male and female); \$1,200 to \$1,500 a year; No. 2129-amended; August 2, 1920; form 1312; age, 20 years but not 35 years.*

Assistant observer, Weather Bureau (male and female); \$1,080 a year; No. 266; May 19 and July 21, 1920; form 304; age, 18 years but not 35 years.

Dairy husbandman (male and female); \$2,000 to \$3,000 a year; No. 257; May 25, 1920; form 2118;

age, 21 years but not 50 years.*

Desfrence provisionary and structural steel (male and female); \$1,560 a year; No. 276; May 25,

Draftsman, architectural, and structural steel (male and female); \$1,560 a year; No. 276; May 25, 1920; form 1312: age, 18 years but not 45 years.*

Expert driller (male and female); \$2,000 to \$3,600 a year; No. 162-amended; May 11, 1920; form

2118; age, 25 years but not 45 years.*

Gas expert (male and female); \$3,600 a year; No. 263; May 25, 1920; form 1312; age, within reasonable age limits.*

Highway economist (male and female); \$1,800 to \$3,000 a year; No. 258; May 25, 1920; form 2118; age, under 45 years. Insect delineator (male and female); \$1,400 to \$1,800 a year; No. 269; June 9, 1920; form 1312; age, under 50 years. Legal assistant (male and female); \$2,400 to \$4,500 a year; No. 270; June 1, 1920; form 2118;

age, 25 years but not 55 years.

Cloudiness records are from bi-hoarly eye observations. Sunshine records are from automatic electric sunshine recorders.

Market milk specialist (male and female); \$2,000 to \$3,000 a year; No. 259; May 25, 1920; form 2118; age, uneer 45 years.

Assistant market milk specialist (male and female); \$1,500 to \$1,980 a year; No. 259; May 25, 1920; form 2118; age, under 45 years.

Special investigator (male and female); \$2,400 a year; No. 253; May 18, 1920; form 1312; age, within reasonable age limits.*

Supervising metallurgist (male and female); \$4,000 to \$5,000 a year; No. 265; May 25, 1920; form Computor and designer of heating and ventilating work (male and female): \$1,440 a year; June

8, 1920; form 1312; age, 20 years and over.

Expert aid (optical) (male and female); \$2,400 to \$3,000 a year; June 8, 1920; form under 45 years.†

Multigraph operator (male and female); \$1,100 a year; June 9, 1920; form 304; age, 18 years and

Preparator in nematology (male and female); \$660 to \$1,100 a year; June 9, 1920; form 304; age, 18 years and over.

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications. and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

†Nonassembled. Applications will be received at any time until further notice.

### Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Com-The estates of the following deceased employees of the Panama Canalor the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by-	Date of death.
James Black George Dickson (Dix- on)	36010	Jamaica	Panama	Supply Department Building Division	April 5, 1920. April 13, 1920.
Frederick E. Goree Jose Salazar. Henrique Bonila	1139 47087 44993	United States Guatemala Panama	Balboa Panama Panama	Supply Department Building Division Cattle Industry	January 17, 1920. April 9, 1920. April 9, 1920.
Antonio Alverez Juan Arrevalo Verdun Felix Melrose Fenton		Colombia Venezuela. Martinique. Jamaica	Camp Bierd Camp Bierd Panama Panama	Coaling station Panama Railroad Panama Railroad Mechanical Division	April 17, 1920. April 24, 1920. April 22, 1920.
Alonzo Gomez Benjamin Morrison Manuel Mora	35748	Colombia	Colon	Mechanical Division Panama Railroad Panama Railroad	April 25, 1920. April 23, 1920. April 22, 1920. April 27, 1920.
	25389	Antigua	Colon	Panama Railroad	April 29, 1920.

### Official Circulars.

### Revised Travel Regulations.

THE PANAMA CANAL,

EXECUTIVE OFFICE. BALBOA HEIGHTS, C. Z., April 23, 1920.

To all concerned-This office is advised that To all concerned—This office is advised that there is some misunderstanding of the provisions of my circular of April 8, 1920, "Revised Travel Regulations," and to correct this misunderstanding the following is stated for the information and guidance of all:

The provisions of "Revised Travel Regulations"

The provisions of "Revised Travel Regulations" circular of July 19, 1919, requiring hostile aliens to procure special permits, on applications at the police stations at Balboa or Cristobal, to depart from the Canal Zone, are repealed by the provisions of the Executive Order of the President of February 20, 1920, when such hostile aliers are departing for European ports. However, only aepartures from the Canal Zone for European ports were intended to be covered by the law; and those hostile aliens arriving at Canal Zone ports for transit of the Canal or the Canal Zone are not relieved from the requirement that they should have in their possession and submit to the should have in their possession and submit to the appropriate authorities passports properly visaed by the American Consular officer at the port of departure for the Canal Zone.

> CHESTER HARDING. Governor.

### Accountable Official.

THE PANAMA CANAL. ACCOUNTING DEPARTMENT, BALBOA HEIGHTS, C. Z., April 16, 1920.

CIRCULAR No. 238:

Effective April 19, 1920, Mr. George Cart-wright is designated an accountable official of The Panama Canal, vice Capt. Frederick Kariger, and as such will account for all nonexpendable property in use by the Lighthouse Subdivision.

H. A. A. SMITH, Auditor, The Panama Canal.

Approved: CHESTER HARDING, Governor.

### Steamship Transportation.

THE PANAMA CANAL, EXECUTIVE OFFICE BALBOA HEIGHTS, C. Z., April 30, 1920.

To all concerned—Owing to the increasing steamship passenger traffic and demand for accommodations for employees and their families entering upon leaves of absence, it is necessary to entering upon leaves of absence, it is necessary to temporarily discontinue the issuance of reduced rates to nondependent relatives of employees from New York to Cristobal via the Panama Railroad Steamship Line.

This arrangement will remain in effect until further notice (in all probability about 5 months).

By direction of the Governor.

C. A. MCILVAINE, Executive Secretary.

### Use of \$1.50 Tickets.

PANAMA RAILROAD COMPANY, OFFICE OF AUDITOR, BALBOA HEIGITIS, C. Z., May 1, 1920. CIRCULAR R. A. 687 (Amendment to circular

CRECULAR R. A. 687 (Amendment to circular R. A. 684.

1. The return portion of special \$1.50 tickets should be honored for transportation up to the last train leaving terminal May 1, 1920.

2. The return portion of the U. S. tickets (S) now in the hands of civilians should be honored to the date of expiration which is 10 days after the date of sale as indicated by station stamp.

3. Civilians boarding trains at nonagency stations or when stations are closed, must have mileage or pay full fare.

4. Persons in the U. S. military and naval service when in uniform or holding proper identification.

ice when in uniform or holding proper identification, when boarding trains at nonagency stations, or when stations are closed, will be allowed one-

half of tariff rates.
5. Persons in the U. S. military and naval service (properly identified as per paragraph 4), service (properly identified as per paragraph 4), purchasing tickets at stations when no U. S. tickets are provided, will be furnished simplex tickets at one-half of tariff rate. These simplex tickets are to be stamped "Employee's rate" and will be honored from military and naval carries men only. service men only.

6. No one-half rate requests will be honored

under any circumstances.

H. A. A. SMITH, Auditor, The Panama Canal.

Approved and compliance directed. S. W. HEALD, Superintendent.

### Acting Architect.

THE PANAMA CANAL, THE FANAMA CANAL,

DEPT. OF OPERATION AND MAINTENANCE,
BALBOA HEIGHTS, C. Z., April 24, 1920.

All concerned—Mr. Meade Bolton is appointed
acting architect during the period Mr. S. M.

Hitt, architect, is on leave of absence.

Effective this date.

T. C. MORRIS, Resident Engineer.

### Examination for Junior Engineer.

THE PANAMA CANAL,
EXECUTIVE DEPARTMENT,
BALBOA HEIGHTS, C. Z., April 27, 1920.
HEADS OF DEPARTMENTS AND DIVISIONS:

Heads of Departments and Divisions:
An examination for junior engineer in The Panama Canal service is hereby announced to be given at Balboa Heights, Canal Zone, in the board room of the Administration Building on Sunday, May 16, 1929, beginning at 9 a. m. Five hours will be allowed for completing the examination.

**According to Circular 603–13, all promotions to the grade of junior engineer shall be made by selection from an eligible list established by means of an examination held by the Local Board of Examiners for the promotion of recorders and of Examiners for the promotion of recorders and surveyors. This examination will include the surveyors.

following subjects: 1. Mathematics.

Surveying.

Surveying.
 Design and construction.
 The weights to be given these subjects will be decided at later date, but the applicants will be given this information before beginning the

examination.

The board will endeavor to make this examina-tion as practical as possible to the work of The Panama Canal by incorporating in the examina-tion questions made up from suggestions by the heads of the various departments and divisions who employ engineers.

This examination is open to all recorders, surveyors and draftsmen now in the service of The

Panama Canal.

Application to take this examination should be made to the Secretary of the Local Board at Balboa Heights, from whom further detailed information may be obtained relative to this examination.

Local Board of Examiners.
A. Wilson, Secretary.
Telephone No. 5.

, 1920Continued from page 562.
ntic to Pacific, March,
Pacific
Atlantic to
I from
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Through th
Passing
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3 Ports o
п Атоп
Distribution Among Ports of Cargo Passin
ភ

Total	165,617 10,277 9,900 1,843 4,246 19,507 12,205 61,093	428,473
Vladivostok, Siberia.	8,000	8,000
Vancouver,	9,127	9,127
San Fran- cisco, Cal.	9,500	33,392
Honolulu, Hawaii.	1,843	1,843
Champerico, Guatemala.		200
Balboa, Canal Zone.	11,500	11,500
Gusyaquil, Ecuador.		2,880
Бајачету, Реги.	3,000	3,000
Callao, Peru,		4,655
Buenaven- tura, Col.		3,637
Valparaiso,	7,777	19,769
Tocopilla, Chile.		3,500
Taltal, Chile.	9,700	9,700
Taleahuano, Chile,	0,030	9,030
Pisagua, Chile.	16,393	16,393
From—	New York, N. Y. Norfolk, Va. Philadelphia, Pa. Plymouth, England Port Arthur, Tex Sabine, Tex Savannah, Ga. Tampico, Mexico.	Totals

### Misdirected Letters.

BALBOA HEIGHTS, C. Z., May 3, 1920. The following insufficiently addressed mail has been received in the office of the Director of Posts, and may be obtained upon request of the addressee. Such request may be made by telephone, calling No. 182, Balboa: Barker, Harry D., Box Holcomb, Mrs. Katherine
Lowe, E. J.†
Lowe, E. J.†
Matheson, Walter B.
McFarlane, Mrs. Susan,
care Tom Ellis‡
Mills, Ralph
Moss, Miss Elaima
Peterka, Joseph†
Sands, Miss Nell R.
Slinkard, Leo.*
Stairn. Richard E.
Stub, John*
Thompson, T. B.
Vargas, Señora Josephina V. de ine 226 Bennett, Harvey W.
Bruning, M. H.*
Clements, E. A.
Constantine, Mrs. M. J.
Cottingham, Howard Adolph Eastmond, Mrs. G. E. Eckert, Jos.† Filleon, Mrs. Gehman, Wm. Glyn, Allen Groves, Charles Hallifield, Habert

### Sale of Two Pile Drivers.

Sale of Two Pile Drivers.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10.30 a. m., May 21, 1920, and then opened, for the purchase of two pile drivers, located at Cristobal storehouse. Description and form of proposal may be had upon application to the office of the Chief Quartermaster. Bids will be received on one or both of the pile drivers. The Panama Canal reserves the right to reject any or all bids.

## Additions to Commissary Stock

Additions to Commissary Stock.	
Bakery Section.	
Apple tarts, ea\$6	0.021
Dry Goods Section.	
Cloth, Flantex, 32", yd	. 88
Cloths, sideboard, H. S., linen, 18 x 54, ea.	1.35
Cloths, centre, scalloped and embroidered,	
linen, Madeira, 36", ea	2.90
Cloths, sideboard, H. S., linen, Madeira,	
18 x 45, ea	1.15
Covers, cushion, cotton, H. S., embroid-	. 21
ered, 12 x 16, ea	. 66
Covers, cushion, cotton, H. S., embroid-	.00
e1ed, 12 x 16, ea	. 62
eied, 12 x 16, ea	
ered, 12 x 16, ea	. 50
Covers, cushion, H. S., embroidered, 12 x	
16, ea	1.45
Covers, cusnion, H. S., embroidered, scal-	3,10
loped, 12 x 16, ea	1.40
Dress goods:	1.40
Checks, pajama, 36", yd	. 49
Pongette, assorted colors, yd	.72
Voile, white fancy, 36", vd	.82
Embroideries, edging, yd Embroideries, edging and insertion, yd	.07
Embroideries, edging and insertion, yd	.08
Grocery Section.	
Allspice, "Gauntlet, 2-oz. bot	.10
Blue, laundry, Keene's, 1-oz. s1	. 01 ½
Chocolate, milk, Nestle's, cake	.02
Chop suey, Purity Cross, 7-oz. tin	. 28
Chop suey, Purity Cross, $15\frac{1}{2}$ -oz. tin Coconut, fresh grated, 1s. tin	.53
Codfish. creiamed, Purity Cross, 4-oz. tin.	.16
Crisco, 1s tn	.39
Finnan, haddie Purity Cross, 4-oz. tin	.20
Flavor'ng extract, "Kitchen Bouquet," 1-pt	
DOL.	.32
Lodster a la Newburg, Purity Cross, 4-oz,	
tin Mace, "Gauntlet, 2-oz. bot	. 36
Powd - balin Parel des tie	.16
Powder, baking, Royal, 4-oz. tin	.14
Sage, powdered, "Gauntlet," 1\frac{1}{4}-oz. bot	.10
Soap, Bon Ami, small cake	.05
Thyme, ground, "Gauntlet," 1½-oz. bot	.10
Jine, Broame, Caamere, 17 obs botter	

# MOVEMENTS OF OCEAN VESSELS.—Continued from page 565.

PORT OF BALBOA

	For—	San Francisco. Talara. Hongkong. Alaska. Alaska.	stmeridian.
*DEPARTURES.	Line.	Wilson Brothers & Co	Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.
	Vessel.	April 27. Oregon Lady Sybil Lady Sybil April 28. Kiyo Maru May I Baroda (j)	on the 24-hour basis
	Date.	April 27April 28April 28May 1May 1	rs are expressed
	From-	Rabo de Puerco. Callao. Valparaiso. Valparaiso.	
*ARRIVALS.	Line.	Wilson Brothers & Co. All-American Cables Co. Toyo Kisen Kaisla. United States Shipping Board.	*Other than ships passing through the Capal.
	Vessel,	r (i)	(i) Cable ship (i) Baree
	Date.	April 26. Oregon April 27. Guardian April 28. Kiyo Ma April 28. Lake Fly	(i) Cablest

^{*} Paper. † Card. ‡ Special delivery.

### Hotel Aspinwall Launch Schedule.

Following is the schedule of launch service maintained by the Supply Department between Balboa and the Hotel Aspinwall on Taboga Island: Daila

Duny.	
Leave Port Captain's boat landing, near dock 19	10.00 a. m.
Leave Taboga	8.00 a. m.
Sundays and Holidays.	
Leave dock 19. Balboa	10.00 a. m.
Leave Taboga returning	11.30 a. m.
Leave dock 19, Balboa	4.30 p. m.
Leave Taboga returning	6.00 p. m.
Saturdays and days preceding holidays.	
Leave dock 19 Balboa	10.00 a. m.
Leave Taboga returning	11.30 a. m.
Leave dock 19. Balboa	6.00 p. m.
Returning from Taboga the following day	8.00 a. m.
Fares (each way)—Employees, 35 cents; nonemployees, 60 cents	; children of

employees over 6 and under 12 years old, 25 cents; of nonemployees, 40 cents.

Hotel patrons desiring to send trunks should arrange to have them delivered at the launch landing by 9.30 a. m., addressed to themselves, care of Hotel Aspinwall. Freight will be transported on the a. m. trip on Mondays, Thursdays, and Saturdays.

For further information address Manager, Hotel Aspinwall, Taboga, via Balboa, C. Z.

### COMMISSARY NOTES.

### Music.

Popular music compositions have recently been received from New York and are being sold in all commissaries.

### Electric Irons.

A shipment of electric irons, which have been out of stock for a long time, has been received and placed on sale at all commissaries.

### Silk Dress Goods.

A shipment of silk dress goods from an American exporter of established reputation has recently been distributed to the line stores. In this lot were received silk and wool brocade, radium silk, indestructible voile, and silk-knit jersey de lux.

### Prices.

Commissary patrons are requested to pay no attention to rumors of a general advance in prices. Such rumors are absolutely without foundation and patrons are assured that prices will continue to reflect purchases at the best terms obtainable in the world's markets.

### Linens.

There is being offered for sale at Balboa, Cristobal, Gatun, and Pedro Miguel commissaries, a shipment of Madeira hand-embroidered linens recently received from abroad. Among the items of particular interest may be mentioned a range of 36", 45", 54", and 72" square tea cloths in several different patterns and 12" x 12" tea napkins, likewise in assorted patterns. Besides, there are round centerpieces, round doilies, oval doilies, and Dutchess dresser sets which are considered very good values.

### Tobacco.

It was recently necessary to withdraw from sale a popular brand of chewing tobacco which had become moldy, besides which a large consignment of another favorite was damaged at sea and never received. This naturally caused the consumption of other brands to increase so that the Commissary Division is practically out of stock of all brands. Accidents like this cause serious embarrassment as it must be borne in mind that only limited stocks can be carried on account of climatic conditions, and deliveries from the States are most uncertain these days. It is expected that the line will be complete shortly.

### COMMISSARY NOTES.

### Woolens.

A very good line of woolens was recently received from the United States and distributed to the five large commissaries and the Ancon tailor shop. Numbers of especial interest are the tropical weight worsteds in plain and fancy patterns.

### Collars.

A variety of styles in stiff and soft collars, at 11 cents each, have been placed on sale at all commissaries except Gamboa and Culebra. The styles offered have been discontinued as regular items and there is not a full run of sizes in all of the styles, but for those who can be fitted rare values can be obtained.

### Citrate of Magnesia.

Citrate of magnesia, a mild laxative prepared in the industrial laboratory and carried as a cold storage item, is now available at all commissaries at 26 cents per bottle, 5 cents being allowed for the return of the bottle. It is prepared with the approval of the Health Department and the necessary precautions have been taken to keep it fresh at all times.

### Enamel Ware.

The commissary purchasing agent advises that the enamel ware situation is getting worse every day. One of the bidders for supplies on a commissary requisition wrote recently: "We are accepting orders only subject to price changes and to take prices in effect when shipments can be made, which will be at least six months from time orders are received at the factory."

### Coloring.

Household coloring solutions for coloring cakes, jellies, ice creams, ices, beverages, etc., are now on sale at the commissaries. They are put up in the industrial laboratory and are guaranteed to conform to the requirements of the National Food and Drug Act, enacted June 30, 1906. The following colors are available at 15 cents each for a 4-ounce bottle: Strawberry red, orange, lemon yellow, burnt sugar brown, brilliant green, and chocolate brown.

### Books.

A small shipment of popular juvenile' books to sell at 53 cents each has been received and distributed to the line stores. Commissaries are also offering at 85 cents each reprints by well-known authors. There are 17 volumes by Robert W. Chambers, and other novelists represented are George Barr McCutcheon, Samuel Hopkins Adams, Owen Wister, Sophie Kerr, B. M. Bower, and Anna Katherine Green.

"Penrod," by Booth Tarkington; "Commy," by Axelson; "We need the business." by Joseph C. Austrian; "Admirable Crichton," James M. Barrie; "Complete works of Richard Harding Davis;" "A Man for the Ages," by Irving Bachellor; "The Young Visiters," by Daisy Ashford; "Tales of Three Hemispheres," by Lord Dunsany; "Polished Ebony," by Octavus Ray Cohen; "How to Run an Automobile," by Page; "Tom Sawyer Abroad," by Mark Twain.

### "Save-Money-on-Meat" Week.

The campaign announced by the Department of Justice to fight the high cost of living by popularizing the least expensive meat cuts (forequarter meat especially) was recently opened in nine States with a "Save-Money-on-Meat" week. The following schedule was suggested for the week:

Monday	Choice.	Alternate.
Monday	Beef stew	Liver.
Tuesday	Pot roast	Ox tails.
Wednesday	Soup meat	Beef hearts.
Thursday Friday	Lamb stew	Chopped meat.
Friday	Veal stew	Sausage meat.
Saturday	Corned beef	Chuck roast.

## THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address The Panama Canal Record, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C. Entered as second-class matter, February 6, 1918; at the Post Office at Cristohal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., May 12, 1920.

No. 39.

### Three Ships in the Balboa Dry Docks at the Same Time.

The photograph reproduced on page 579 shows three ships drydocked together at Balboa, the Pacific terminus of the Panama Canal. The total length of the three ships is 968 feet. The dry dock is 1,000 feet long by 110 feet wide, with a depth of 45 feet over the keel blocks at high tide, and can accordingly accommodate the largest ships in the world.

The ship nearest the reader is the Lake Fitch, 262 feet long and of 2,939 gross tons. She had her hull cleaned, repaired, and painted, and repairs made to her boilers and main engines, propellers, stern tube, tail shaft, steering gear and rudder, auxiliary machinery, sea

valves, and forepeak tank.

The Lake Garza, 261 feet, 2,482 tons, is in the center. Work on her included hull repairs, cleaning and painting, repairs to feed and bilge pumps, sea valves, windlass, fireroom ventilator, and telegraph.

The ship next the entrance is the San Joaquin, 445 feet, 7,059 tons. Boiler repairs, cleaning and painting, and winch repairs were the

principal items for her.

On the far side of the dry dock is seen the 50-ton steam crane which travels around the coping of the dock and out on the repair wharf, beyond the shop buildings in the right middle distance. The large ship at the repair wharf is the 9,000-ton Cristobal, which was virtually rebuilt at Balboa shops and sailed for New York on May 3, as told in THE PANAMA CANAL RECORD of last week.

The photograph shows about a third of the shops, which employ over 2,000 men. On the extreme left is the coaling plant of the Pacific

terminus of the Canal.

### General Pershing and the Canal.

THE PANAMA CANAL, EXECUTIVE OFFICE. BALBOA HEIGHTS, C. Z., May 5, 1920.

All concerned—It gives me great pleasure to quote for the information of the Canal forces the following letter addressed to me by Gen. John J. Pershing, under date of the 4th instant:

"HIS EXCELLENCY GENERAL CHESTER HARDING, Governor of Panama Canal Zone, Balboa, C. Z.

My dear Governor:
"Before leaving the Canal Zone I wish to express to you my very sincere thanks for my your courtesy to me during my stay and for the many arrangements made for my comfort and convenience carried out by your subordinates. I have thoroughly enjoyed this opportunity to see the Canal and to gain some idea of the remarkable achievement of American engineers and sanitary experts connected with its construction and present operation. I have been particularly impressed with the splendid personnel in your organization.

"I also wish especially to thank you for arranging an oppor-

tunity for me to meet so many of the residents of the Canal Zone.

"With assurance of my warm regard, believe me,

Cordially yours, John J. Pershing."

CHESTER HARDING, Governor.

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight May 8, 1920.

THROUGH THE CANAL --- ATLANTIC TO PACIFIC.

			. ~	on e	. (*	63.4	~	-	20.0	200	. ~	, ,~		63	on.	2	co.	an.	nystel.	~	~	~	
Cana	200	Net	-	3,718	4.519	6	2,85				1,622	4	١:	70	4,698	5,	69	5,458	3,20	3	4,167	5,847	
Panama Cana		Gross	1,582	2,631	6.329	8,114	4,731	9,988	1,480	0 100	2,505	6.635		7,488	6,135	7,285	1,213	7,318	4,478	4,750	5,654	7,885	
	Tons		776	2,600	000	8,480	308	10, 100	:	0 450	1 866	6.845 6.635		(a)		8,050		-	(g)	3,042	5.500	6,500	
	Cargo			Oil			) dse)	Petroleum		Cotton and aton	Succes.	Coal		Fuel oil		General	:	Crude oil	Refined oils		Crude sulphur		
	For-		Guayaquil	Arica	Ignique	Yokohama	Callao	Shanghai	Arica	Guayaquil	Taniane	Callao.	Seattle	Taltal	Iquique	Yokohama	Champerico	Pisagua	Brisbane	Brishane	Melbourne	Auekland	
	From-		Cristobal	Tuxpan	Norfolk.	New York	Cristobal	Sabine	Nortolk	Veristobal	Norfolk.	Norfolk	New London.	Tampico	Leith	New York	Cristobal	Tampico	Norfolk	New York	Sabine	New York	
± 5.			15.3	22.0 23.0	25.6	27.6	19.3			0.71		26.8	0.6	28		27.		29.0	23.6	19.6	25.6	28.6	
	Beam		35.3	43.8	53.0	54.6	46.1	62.7	35.2	43.3	43.7	20.00	26.4	55.0	52.0	55.0	33.0	55.0	51.0	47.0	50.0	55.0	
	Length Beam		246.0	250.0 409.6	402.0	434.0	367.3	467.7	474.8	559.3 470.0	251.0	407.0	200.0	435.3	405.0	395.0	215.0	427.0	365.0	375.0	384.0	440.0	
	Line		Pacific Steam Navigation Co	International Petroleum Co	United States Shipping Board	Ellerman & Bucknall	Feruvian Line	Standard Oil Co	Robin Line Steamship Co	Alfred Holt & Co	United States Shinning Board	British Government	United States Navy	C. T. Bowring & Co	Andrew Weir & Co	United States Shipping Board	Pacific Steam Navigation Co	Standard Oil Co	Commonwealth Government	Ellerman Hall Line	Australind Steamship Co	Commonwealth & Dominion Line	
	Nationality		British	British	<b>*</b>	14 1				British			American			V	British				British		
Cleared for sea	mo	н	23.4	8 12	15.04	21.05	22.03	21.00	19.22	91 95	17.30	22.55	:	5.20	18.25	19.17	6.22	7.40	55	19.21	:	21.29	
	AT.	DS	36	225	5	21.	4 .	90	10	26 4	27	51	25	12 7	52 6	30 7	35 7	55	2	10 8	-	42 8	
Completed transit	TW0		2 20.5	20.07	3 17.4	2 20.15	10.	19.	10.	4 90 9	5 16.	6 17.51	5 16.2		6 16.5	6 19.3	6 18.	7 20.	7 21.48	8 18.4	8 119.	8 20.4	
	9A none		6. f3	7.00	040	.55	277	40	77.	9.40	3.17	32	00.	3.22	3.53	7.45	.30	. 20	0.05	. 20	.49	1.47	00000
Entered Canal	- Ve	- 1		76				4 .	# 4	# 4		5 10			9	9	9	7	7 1	00	00	8 10	37 00
	Inc		8.55	6.28	8.35	2.17	20.30	0.45	97.00	00.00	6.12	12.05	2.45	11.06	22.53	11.24	30.00	15.42	5.28	6.15	9.13	8.30	1 (6)
Arrived at port	- Ye	D	27 1			01 5			100	3 00	4	r.	5	5	9	9	6.1	ت 	1	7 1	00	7	Journ
	Ship		Cauca	Editor	Pasadena	Kathlamba	CI A.	D.bin A.lein	Customele	KnightTemplar	Lake Lesa	Winifred	Bothwell	Lompoe	Minerie	Duquesne	Salvador	Bradford	Australport	Newby Hall	Australind	Port Hacking.	(a) 71 000 barrels (b) 37 000 ea

THROUGH THE CANAL -PACIFIC TO ATLANTIC.

4	337	010	277	113	592	,747	179	954	<b>465</b>	215	
	30	5	37 3,	16, 4,	3	36 1,	75 4,	3,8	24 4,4	39 6,	
	7,30	1,41	4,62	5,81	1,31	2,5	5,47	5,40	6,22	9,08	
	7 011	110,	6,600 4,627 3,277	7,500	1,077	3,000	7,000	8,041	7,818	3,472	
	Ballast. 7 011 7 479 6 610	Kice and general.	Nitrate	Nitrate of soda	General	Nitrate, general	Nitrate	Nitrate	Flour	General	
	Tampieo	парапа	Cristobal (c)	Cristobal (c).	Cristobal	Cristobal (c)	Liverpool	Cristobal (c)	New York	New York	
	Antofagasta	424.8 59.2 24.3 Seattle Habaha	Taltal	Taltal	San Jose, Guat	Iquique	Mejillones	Taltal	Seattle	Talcahuano	
	19.0	24.3	23.6	25.3	16.0	24.0	25.6	24.6	26.6	25.0	
	53.4	2.00	49.0	52.0	33.5	46.0	51.1	54.1	51.2	57.8	
	97.1.6	\$24. ×	354.0	0.00	15.0	267.3	373.0	390.0	385,3	150.3	
	Standard Oil Co.	okinner & Eddy Corp					Andrew Weir & Co.	Bruusgaard Kiosterud & Co	. United States Shipping Board.	Paeifie Steam Navigation Co	
	22.56 3 1.45 American	O American.	23 American.	50 British	30 British	30 American.	_	15 Norwegian.	~	18 British.,	
	0.7	77_	3.5	3 7.	3 10.8	3 18.0	3 23.1	2.15	23.0	5 6.4	
	90	- -	45	20	00	00	67	90	29 4	5	l
	222	.12 2	2 23.45	2 22	2 20.	22.2	3 20	3 22	4 20.	4 21.	
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6	16.30	10.40	22.00	3 30	12.30	18.00	13.30	5.30	13.30	20.45	l
		-	_	2	67			es			
Benjamin	Dobin Char	Stephen R.	Jones	Ballena	Salvador	Міка	Madawaska	Herakles	Eastern Ocean.	Ebro	

(c) For orders.

Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

2,009 2,977 706 2,404 4,444 3,215	1,575 69 5,969 4,697 4,355
4,267 4,267 4,505 4,505 1,273 3,460 6,167 7,983 5,018	2,510 130 8,328 2,835 6,470 6,106
5.647 1,223 1,223 1,223 724 2,900 6,730 1,375	3,025 6,400 6,400
Crude oil, etc Nitrate General Ballast General General Flour Nitrate. General	Manganese ore Ballast. Coffee, platinum. Nitrate. General General General Nitrate of soda
Wallu, Norw'y Cavannah Cristobal Cristobal Cristobal Cristobal Now York Wilmington Cristobal Cristobal Cristobal	Cristobal (c) Gamboa, C. Z. Cristobal Charleston New York New York New York
Talara. Toeopilla. Valparaiso. Balboa. Guayaquil. Taeku Bar. Taeoma. Iquique.	Coquimbo Balboa Bucnaventura.Antofagasta Auckland Eten Yokohama
48.0 23.6 55.0 28.0 60.1 20.6 33.5 11.0 44.6 20.6 551.7 24.0 45.9 19.0	22222222 33222226 822066
	16.5 16.5 16.5 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0
345.0 395.5 395.5 395.5 215.7 2288.8 434.3 381.2	251.0 72.0 81.0 440.0 395.5 298.6 423.4 390.0
C. Michalsen Co. United States Steel Products Co. Chilean Line. Standard Olf Co. Robert Dollar Line United States Shipping Board. United States Shipping Board. Putted States Shipping Board.	United States Shipping Board P. Schuber. Parific Metals Corporation United States Shipping Board United States Shipping Board W. R. Grace & Co Wippon Yusen Kabushik Kaisha United States Shipping Board
Norwegian. Chilean. American. British. American. American. American.	12.10 8 10.25 American. Paramaniar British 23.30 8 23.54 American. 2.29 9 15.28 American. 2.29 9 6.27 American. 21.08 9 6.27 American. 22.40 9 6.20 American.
23 25 25 25 25 25 25 25 25 25 25 25 25 25	23.54 15.28 6.27 6.25 6.25 5.20
80 10 10 10 10 10 10 10 10 10 10 10 10 10	8
7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 8 8 20 20 23 24 14 12 12 12 12 12 12 12 12 12 12 12 12 12
88.21 11.25 6.30 6.30 7.02 8.35 8.35 8.35 8.35 8.35 8.35 8.35 8.35	6.29 6.29 6.37 8.13 8.58 9.05 H.05
400000077	
4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 10.00 6 16.15 7 13.54 7 22.40 8 5.50 8 12.01
Conrad Mohr Steel Age.  Ayen. J. A. Bostwick Acabuta Stanley Dollar. Eastern Crown. Colacter	Lake Char- Lottice (d).  Lottice (d).  Laura C. Hall(e). Victorious.  Liberty.  Mineola.  Tottori Maru.  Sahale.

(d) Schooner. (e) Motor schooner. (f) Arrived October 20, 1919.

PORT OF CRISTOBAL.

	For-	New York.  New Orleans and Boeas, New Orleans and Porto Rico. Port Limon. New Orleans and Boeas, Cartagena. New Orleans. Colombia. Kingston. Port Limon. New Orleans.			For-	
	F				FC	Salina Cruz Kobe. Taeoma.
*DEPARTURES.	Line,	United States Shipping Board United Fruit Co. United States Army United Fruit Co. United Fruit Co. United Fruit Co. United States Shipping Board Liveryland Live United Fruit Co. British Government. United Fruit Co. British Government. United Fruit Co. United Fruit Co. United Fruit Co. United Fruit Co. Fanama Railroad Steamship Line.		*DEPARTURES.	Line.	Kenkon Maru No. 12 Kuhara Trading Co Kobe. Lake Flynus United States Shipping Board Tacoma.
	Vessel.	Battonville. Atenas. Atenas. Orathern Pacific. Calamares. Carlamares. Alexandrian. Alexandrian. Take Fariston. San Pablo Matapan. Matapan.			Vessel.	Guardian (i) Kenkon Maru No. 12 Lake Flynus
	Date.	May 3.  May 3.  May 4.  May 5.  May 5.  May 6.  May 6.  May 6.  May 7.  May 7.	PORT OF BALBOA.		Date.	May 6 May 8
	From-	New Orleans.  Norfolk.  Liverpool.  New York and Habana.  New York and kingston.  Beranda.  New Orleans.  New Orleans.  New Orleans.  New York and Haiti.  Boston.  Tampico.	PORT OF		Frem-	Iquique. Hongkong. San Jose.
*ARRIVALS.	Line. From-	United Fruit Co.  United States Shipping Board.  United States Shipping Board.  United Fruit Co.  British Government.  United Fruit Co.  British Government.  United Fruit Co.  British Government.  New York and Kingston.  British Government.  New Orleans.  Boston.  Boston.  Boston.  Boston.  Panama Railroad Steamship Line.  Panama Co.  Panama Railroad Steamship Line.  Panama Railroad Steamship Line.	PORT OF	*ARRIVALS,	Line. Frem—	Kuhara Trading Co. Toyo Kisen Kaisha Hongkong. United States Navy. San Jose.
*ARBIVALS.		ay 3.         Cartago.         United Fruit Co.         New Orleans.           ay 4.         Lake Fariston         United States Shipping Board.         Inverpool.           ay 4.         Alexandran         Leyland Line.         Nor Oke and Inbana.           ay 5.         St. Mellons (9).         Winted Fruit Co.         New York and Kingston.           ay 5.         St. Mellons (9).         British Government.         Bernanda.           by 5.         Brish Government.         New Orleans.           by 7.         Advance.         Panama Railroad Steamship Line.         New York and Haiti.           ay 7.         San Pablo.         United Fruit Co.         Boston.         Boston.           ay 8.         Panama Railroad Steamship Line.         Boston.         New York and Haiti.           ay 7.         Panama Railroad Steamship Line.         New York and Haiti.           ay 8.         L. J. Drake.         Standard Oil Co.	PORT OF	*ARRIVALS,		

(A) Third class cruiser. (i) Cableship.

*Other than ships passing through the Canal.

### S. S. "Orcoma" Carries 515 Passengers Through Canal.

The steamship *Orcoma* of the Pacific Steam Navigation Company, Straits Line, passed through the Canal May 8 en route from Port Stanley, Valparaiso, and other South American west coast ports to Liverpool with 515 passengers in transit.

### Hodge Service Extended.

The Hodge Ship Company advises that its service between New Orleans and the west coast of South America, described in The Panama Canal Record of February 11, 1920, as to ports of Colombia and Ecuador, including Buenaventura, Tumaco, Esmeraldas, Bahia, and Guayaquil, now extends as far south as Valparaiso, Chile, touching each of the major ports en route. Stops are made at Cristobal and Balboa, the terminals of the Canal, when cargo is to be discharged or loaded here.

The steamship *Kennebec*, the second vessel to be sent out on this service, arrived at Cristobal on May 7, and discharged cargo there, before proceeding through the Canal. The *Nika*, which passed through the Canal southbound on February 1, arrived at Balboa on her return passage northbound on May 1 from Iquique, with 3,000 tons of nitrate and general cargo. She passed through the Canal, and cleared for Matanzas on May 3.

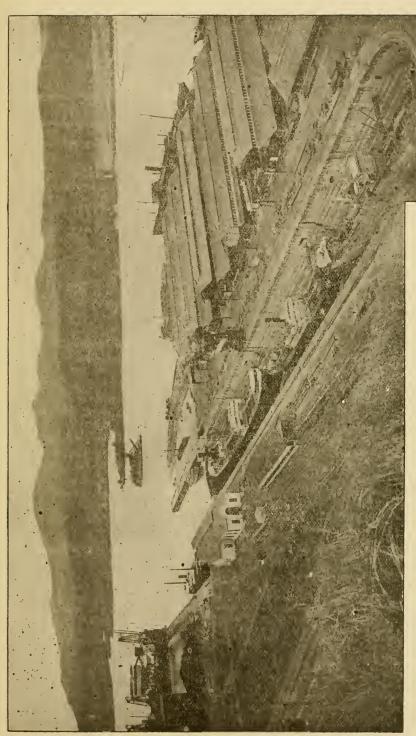
Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending May 8, 1920.

1				Carg	0
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded
Cauca	Pacific Steam Navigation Co		Man 0	Tons.	Tons.
Cristohal	Panama Railroad Steamship Line.		May 2 May 4		780 10,085
Salvador	Pacific Steam Navigation Co	May 2	May 6		930
Cartago			May 5		66
Alexandrian		May 4	May 6		5941
Calamares	United Fruit Co United States Army Transport	May 4	May 5 May 4	379	82 24
Mantaro	Peruvian Line		May 4		910
Aysen				1.222	010
Tivives	United Fruit Co	May 5	May 6	184	
Acajutla	Pacific Steam Navigation Co	May 6		224	
Metapan	United Fruit Co		May 7		33
Advance					
Panama	Panama Railroad Steamship Line Peruvian Line			2,524 1,375	
Belfort	United States Shipping Board	May 8			
L. J. Drake	Standard Oil Co. of New Jersey				
Alkmaar	Royal Dutch West India Mail Line.	May 8		275	
Allianca	Panama Railroad Steamship Line		May 8		2,029
Laura C. Hall	Pacific Metals Corporation	May 8		. 69	1

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending May 8, 1920.

				Carg	30
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
*Jamaica.  J. A. Bostwick. Cauca. Laura C. Hall. Anyo Maru.	Pacific Steam Navigation Co Standard Oil Co Pacific Steam Navigation Co Pacific Metals Corporation Toyo Kisen Kaisha	May 1 May 2 May 6	May 5 May 2 May 7	12,121	Tons. 18

Not available for last report.



The total length of the 3 ships shown is 968 feet. The dry dock is 1,000 feet long by 110 feet wide, and is capable of receiving the largest ships which have been built. (See page 575.) THREE SHIPS IN DRY DOCK TOGETHER AF BALBOA.

### Prices of Miscellaneous Supplies.

The following are prices to individuals and companies, including the 25 per cent surcharge, effective May 1, 1920:

Commodity.	Unit.	Price.
Brass, sheet. Bronze, Tobin.	Lb. Lb. Lb.	\$0.46 .56 .40
Cement, at Panama: Departments of United States Government (including surcharge and bags) Credit for empty bags returned. Individuals and companies (includes surebarge and bags) Credit for empty bags returned.	Bag Bag Bag Bag	1.1925 085 1 765 25
Cement, at Colon:  Departments of United States Government (includes surcharge and bags).  Credit for empty bags returned. Individuals and companies (includes surcharge and bags).  Credit for empty bags returned.	Bag Bag Bag Bag	$^{1.0475}_{\begin{array}{c}085\\1.58\\25\end{array}}$
Capter, luf. Capter, luf. Gaseline, in drums (motor grade).	Cwt. Lb. Gal. Lb. Lb.	$\begin{array}{r} .94 \\ 50 \\ 475 \\ 14 \\ 10 \end{array}$
Lead, sheet Lead, pig. Lead, pig. Lumler, ceiling, siding, and flooring, 1" by 6". Lumler, flooring, 1" by 3" and 1" by 4". Lumler, tellow pine or fir (except ceiling). Metal, yellow Nuts, iron, machine, hexagonal Nuts, iron, machine, square Valls cornwan, wire	M ft. B. M. M ft. B. M. M ft. B. M. Lb. Lb.	118.75 143.75 100.60 375 225
Nuis, iron, machine, square  Nails, common, wire  Nails, raivanized  Oakum, Navy, opun  Oakum, Navy, opun  Oil, fuel, at Balboa and Cristobal—in bulk:	Lb. Lb. Lb. Lb. Lb.	.115 06 .09 .20 .20
Communicated weekels and individuals and companies barrel of 42 gallons	Bbl. Bbl.	2.00 2.00
Oil, fuci, at Cristobal and Balboa—in drums and barrels: United States Army and Navy and vessels operated by same, barrel of 42 gallons. Commercial vessels and individuals and companies, barrel of 42 gallons Oils, greases, and lubricants:	Bbl. Bbl.	$\substack{2.25 \\ 2.25}$
Oil, air compressor cylinder. Oil, ammonia cylinder. Oil, burning. Oil, cylinder, dark marine. Oil, cylinder, dark marine. Oil, cylinder, dark marine. Oil ice machine, steam	Gal. Gal. Gal. Gal. Gal. Gal. Gal. Gal.	.56 .50 1 38 .875 1.25 1.00 .79 .69 .56
Oil, engine—in tins. Oil, engine—in tins. Oil, engine—in barrels. Oil, gas engine, barrels. Oil, gas engine, extra heavy—in drums. Oil, gas engine, heavy—in barrels. Oil, gas engine, heavy—in cases. Oil, gas engine, medium—in drums. Oil, kerosene—in drums. Oil, kerosene—in tins. Oil, linseed, boiled. Oil, linseed, boiled. Oil, linseed, raw. Oil, locomotive engine. Oil, lard. Oil, marine engine. Oil, marine engine. Oil, marine engine. Oil, marine engine.	Gal. Gal. Gal. Gal. Gal. Gal. Gal. Gal.	.69 75 56 31 .34 2 50 2 56 .35 2 07 1 06 625
Oil, marine engine Oil, marine engine Oil, marine engine Oil, "Miseral Seal" Oil, nonliquid Oil, stationary engine	Gal. Gal. Gal. Lb. Gal.	.75 .34 .10
Oil, simal Oil, valve Oil, car	Gal. Gal. Gal. Lb.	2.875 1.375 .50 .225 .20
Grease, black, gear.  Grease, yellow, cup, No. 3.  Grease, role, special.	Lb. Lb. Lb. Lb. Lb.	.075 .125 .14 .225 .19 .225
Tarpentine	Lb. Gal. Gal. Lb. Lb.	2 69 46 .11 .125
Vaseline Paint, lead, white, dry Paint, lead, white, in oil. Paint, zinc, white, dry. Paint, zinc, white, in oil. Paint, zinc, white, in oil. Paint, zinc, white, 35 per cent in oil. Rivets Rope, Manila, 4" diameter.	Lb. Lb. Lb. Lb.	15 .225 .19 .19 .10
Rope, Manila, 2" diameter	Cft.	.75

Commodity.	Unit.	Price.
Rope, Manila, †" diameter.	Cft.	\$1.25
Rope, Manila, 3" diameter	Cft.	2.19
Rope, Manila, †" diameter	Cft.	4 06
Repe, Manila, ½" diameter.		4.69
Rope, Manila ‡" diameter	Cft.	6 25
Rope, Manila, I'' diameter		8 75
Rope, Manila, 13" diameter		11 25
Rope, Manila, 1½" diameter.		16.56
Rope, Manila. 1 7 diameter	C ft.	27.50
Rope, Manila, 2" diameter	Cft	30.00
Rope, Manila, 23" diameter.		47.50
Rope, Manila, 3" diameter		77.50
Rope, Manila, 3½" diameter	Cft.	102.50
Steel, bar.		.05
Steel, apring		.21
Steel, rold rolled, round	Lb.	.13
Steel, sheet		.05
Steel, atructural (angles, beams, etc.)	Lb.	.05
Tin, block	Lb.	79
Tin, Banea	Lb.	.19
Tin, sheet.		
Washers, cut	Lb.	225
Waste, colored,		.09
Waste, white		.21
Zinc, boiler plate, \$" by 6" by 12"		.20
muce braine, 8 by 0 by 12	LD.	.15

### Food Drafts for Relief of Central and Eastern Europe Children's Fund.

Food drafts on the American Relief Administration, operating in Central and Eastern Europe, may be purchased on the Isthmus from the American Foreign Banking Corporation, with branches in Panama and Cristobal. The "food draft" is an order on the Relief Administration to deliver a certain quantity of food to a designated recipient at one of its warehouses. The food is sold in units or combinations, at \$10 or \$50 per unit. Combination "A," for example, consists of 24½ pounds of flour, 10 pounds of beans, 8 pounds of bacon, and 8 cans of milk, for \$10. Operations are limited to the following staples: Flour, bacon, beans, corned beef, lard, or vegetable oils, and condensed or evaporated milk. On payment of the requisite amount the bank issues the draft or order on the Relief Administration and gives it to the purchaser, who forwards it to the person to whom he wishes the food delivered, and this person presents it at the warehouse and receives for it the designated quantity of food.

Orders must be presented within 90 days of date of issue. The bank selling the draft forwards an advice of its purchase, and if the draft is not presented at the warehouse within 90 days the warehouse declares

it canceled, and directs a refund to the purchaser of the draft.

If a surplus accrues to the Relief Administration through these sales

of food, it is turned over to the European Children's Fund.

Central warehouses have been established in Warsaw for Poland, Vienna for Austria, Prague for Czecho-Slovakia, Hamburg for Germany, and Budapest for Hungary. The governments of these countries have endorsed the food-draft plan, and will facilitate the entry and distribution of foodstuffs.

If anyone desires to contribute to general relief rather than to a designated beneficiary, the words "General Relief" can be inserted in the space for name of recipient. Such drafts will be used to supply

the soup kitchens and authorized relief agencies.

The European Children's Fund, to which any accruing profits go, was set up in July, 1919, to provide one supplementary meal a day for children weak in body and mind from lack of proper food. The Relief Administration states that nearly 3,000,000 children in 9 countries of Central and Eastern Europe are receiving a daily meal

from its kitchens, and more than 1,250,000 have been given an outfit of clothing. Cnly those children are admitted to the kitchens who are shown to be in especial need of extra food, after a medical examination. Many are being turned away because the Relief Administration can not undertake a larger burden upon the resources available.

Requesting the sending of food drafts to friends in Europe, rather than funds, the chairman of the American Relief Administration has

"Throughout the whole of Central and Eastern Europe the food supply of the people falls into two classes: First, the ration issued by the government; second, illicit circulation of food available to those who have a sufficient amount of money. The government ration is necessarily meagre and nowhere sufficient to properly maintain life, and must be supplemented. Under these circumstances, the scramble for such supplementary margin has placed the price of the illicit food supplies entirely beyond the reach of the great bulk of the population. To illustrate: A single ham

outside the ration system sells for as high as \$150.

"The object of this plan is to add to the total stock of available food supplies in Central and Eastern European countries. Under an arrangement set up with the governments of these countries, this food will be allowed to revolve outside the rationing system, with the hope that enough food will be injected to reduce the pressure on the narrow marginal supplies. The officials of these new governments are endeavoring to impress upon the American people that it is useless to remit money that for the control or Eastern Europe with the hope of improving it food situation. to a family in Central or Eastern Europe with the hope of improving its food situation. The sum total of food now available in Central Europe is insufficient to keep the population alive, and under these circumstances money thus becomes that much paper so far as nutrition is concerned. A hungry man wants food, not money, and under the arrangement outlined above, we can meet his need."

### New High Record for Temperature.

A maximum temperature of 98° F. was recorded at Alhajuela on April 13, 1920. This is the highest shade air temperature of record on the Isthmus since the American occupation, being 1 degree Fahrenheit higher than the previous maximum record of 97° F., which was recorded at Naos Island on February 13, 1906, and again at Ancon on April 7, 1912.

It is interesting to note that maximum air temperatures in the Canal Zone and vicinity usually occur near the end of a long dry season under the influence of intensified solar radiation due to vertical solar rays,

clear skies, and low humidity.

The dry, parched condition of the soil near the end of the dry season also tends to increase air temperatures near the ground, on account of the heat reflected or radiated from its surface.

### Executive Order.-Fort Randolph and France Field Military Reservations and Coco Solo Naval Reservation.

The areas hereinafter described respectively as Fort Randolph Reservation, France Field Reservation and Coco Solo Reservation, situated within the Canal Zone, are hereby set apart and assigned as follows: Fort Randolph and France Field, to the uses and purposes of military reservations, to be under the control of the Secretary of War; and Coco Solo to the uses and purposes of a naval reservation, to be under the control of the Secretary of the Navy. All of the above areas, however, shall be subject to the civil jurisdiction of the Canal Zone authorities in conformity with the Panama Canal Act.

The said areas are described as follows: (Panama Canal Circular No. 601-111

contains these boundaries):

In addition to the above, the Secretary of War shall have control of all lands and water for a distance of one hundred yards out to sea from the high water line on all shores of Fort Randolph and France Field Reservations, and the Secretary of the Navy shall have control of all lands and water for a distance of one hundred yards out

to sea from the high water line on all shores of Coco Solo Reservation.

The transfer of the Fort Randolph and France Field Reservations is made subject to the continued right of the Supply Department of the Panama Canal to use areas not contiguous to barracks or quarters for pasturage of cattle for the supply of beef to the Canal Zone; the pasturage areas, however, to be available for use by the troops when required for military maneuvers or for target practice.

THE WHITE HOUSE,

WOODROW WILSON

April 9, 1920.

The foregoing has been published as Canal circular No. 601-111.

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Board of Civil Service Examiners, Balboa Heights (telephone 286):

Truck foreman (male and female); \$1,000 to \$1,200 a year; No. 282; June 8, 1920; form 1800;

age, 25 years and over.*

Food and drug inspector (male and female); \$1,600 a year; No. 267; June 9, 1920; form 1312; age, 20 years but not 45 years.

Scientific assistant in library science (male and female); \$1,320 to \$1,620 a year; No. 264; May 19,

1920; form 1312; age, 20 years and over.

Technicist (hydrophones); \$8.80 a day (male and female); No. 274; May 25, 1920; form 1312; age, 24 years and over.*

Law clerk and typist (male and female); \$1,400 to \$1,740 a year; No. 268; May 25, July 27, and September 28, 1920; form 304 and announcement No. 807-amended; age, within reasonable age limits. Assistant explosives chemist (male and female); \$2,400 to \$3,000 a year; June 15, 1920; form 2118;

age, within reasonable age limits.*
Assistant in crop acclimatization (male and female); \$1,200 to \$1,800 a year; June 9, 1920; form

1312; age, 18 years or over.*

Chemical engineer, oil and lubrication research (male and female); \$3,000 to \$4,000 a year; June 15, 1920; form 2118; no age stated.*

Dairy manufacturing specialist (male and female); \$1,800 to \$2,700 a year; June 15, 1920; form age, under 45 years.*

Drainage engineer (male and female); \$2,100 to \$2,700 a year; June 15, 1920; form 1312; age,

under 40 years.

Educational director (male and female); \$1,500 to \$2,400 a year; August 1, 1920; (announcement No. 433); age, within reasonable age limits.*

Teachers (male and female); \$1,400 to \$2,400 a year; August 1, 1920 (announcement No. 76) or (announcement No. 75); age, within reasonable age limits.*

Junior drainage engineer (male and female); \$1,200 to \$1,920 a year; June 9, 1920; form 1312; age,

under 30 years.

under 30 years.

Specialist in kindergarten education (male and female); \$2,000 to \$2,500 a year; June 15, 1920; form 2118; age, within reasonable age limits.*

Wood technologist (male and female); \$2,160 to \$3,600 a year; June 15, 1920; form 1312; age, within reasonable age limits.*

Assistant wood technologist (male and female); \$1,500 to \$2,100 a year; June 15, 1920; form 2118; age, within reasonable age limits.*

age, within reasonable age limits.*

Agriculturist, irrigated field crops (male and female); \$1,800 to \$2,400 a year; June 22, 1920; form

2118; age, under 45 years.*

Assistant for fishery food laboratory (male and female, male eligibles desired); \$2,000 to \$2,400 year; June 22, 1920; form 2118; age, within reasonable age limits.*

Graphotype operator (male and female); \$660 to \$1,200 a year; June 9, 1920; form 304; age, 18

years and over.

Plant breeder (male and female); \$2,000 to \$2,400 a year; June 22, 1920; form 2118; age, 25 years but not 45 years.3

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by-	Date of death.		
Rafael Guardia Henry Regis (Rejis) Thomas Brissett Howard Chisholm.	46512 35865 38917		New Culebra Panama Colon	Cattle Industry Bailding Division Building Division	April 30, 1920. April 28, 1920. May 5, 1920.		
alias Herbert Smith	52588	Bahama Islands.	Colon	R. & F. Agent	March 10, 1920.		

### Official Circulars.

### Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT, BALBOA HEIGHTS, C. Z., May 6, 1920.

CIRCULAR No. 240:

Effective May 3, 1920, Mr. T. S. Booz is designated an accountable official of The Panama Canal, vice Mr. A. J. Scott, and as such will account for all nonexpendable property in use by the Clubs and Playgrounds Division of the Executive Office.

H. A. A. SMITH.

Auditor, The Panama Canal.

Approved:

CHESTER HARDING,

Governor.

### Nonexpendable Property.

THE PANAMA CANAL,

ACCOUNTING DEPARTMENT, BALBOA HEIGHTS, C. Z., May 5, 1920.

CIRCULAR No. 239:

To all concerned—As there seem to be some mis-understanding and violation of the rules pertaining to accounting for nonexpendable property surveyed as surplus, obsolete, or unserviceable, you are advised that in the future the following

rules will govern:

rules will govern:

All property surveyed and not destroyed must be tagged with the survey number and shipped to the party or parties designated by the Surveying Officer separate from any other shipment. It must be checked by the receiving official, whether it is designated as scrap or otherwise, and the survey accomplished only for the number of articles actually received. Credit will be given on the property records only for the number of articles receipted for by the receiving official.

Y. H. A. A. SMITH.

H. A. A. SMITH, Auditor, The Panama Canal.

Approved: CHESTER HARDING, Governor.

### Joint Commission.

### Decisions of the Umpire.

In the matter of the claim of the heirs of Agustin

In the matter of the claim of the heirs of Agustin Arias F., for property fronting on the Balboa Road in the District of Ancon, known as "El Mangal." decision of the Umpire, award No. 219, docket No. 2799, May 8, 1920—The above entitled claim was certified to the Umpire on the question of the value of the land only, the Commission having made an award to the claimants herein covering the value of the improvements. The area of the property is 16.800 square meters and in accordance with the evidence introduced by claimants 11,260 square meters are suitable for building purposes, and the remaining 5,540 square meters are not suitable for building purposes. In the opinion of the American members of the Commission the value of this property is \$4,020.80 while the Panamanian members appraise it at \$33,840 plus interest at 6 per cent from the date of its expropriation.

In view of the fact that the property in claim is bounded by the San Lazaro, Punta Mala, and Los Pocitos estates, the present decision is based

Los Pocitos estates, the present decision is based on an average of the awards which I made for

those tracts.

those tracts.

An award is therefore hereby made in favor of Guillermina Diaz Vda. de Arias, Guillermina Agusta Arias de la Guardia, Maria Luisa Arias de la Guardia, Pelia Martina Arias, Jose Antonio Arias, Luis Carlos Arias, and Rogelio Arias, heirs of Agustin Arias F., in the total sum of \$12,000 United States currency, for all right, title, and interest the claimants before mentioned may possess or may have possessed in and to the land

known as "El Mangal" described in claim docket No. 2799, located within the Canal Zone in the District of Ancon, this award to include any and all damages sustained by claimants above named on account of the expropriation of this property by the Upited States of America, and to be paid in the proportions and amounts as follows, to wit:

To Guillermina Diez vda. de Arias, ½ thereof... To Guillermina Augusta Arias de la Guardia, 1/12 thereof..... \$6,000 1,000 To Maria Luisa Arias de la Guardia, 1/12 thereof.
To Delia Martina Arias, 1/12 thereof.
To Jose Antonio Arias, 1/12 thereof.
To Luis Carlos Arias, 1/12 thereof.
To Jose Rogelio Arias, 1/12 thereof. 1,000 1,000 1,000 1,000 1,000

(Sgd.) MANUEL WALLS Y MERINO, Umpire.

In the matter of the claim of Julia del Carmen Bermudez de Aleman, Enrique Bermudez and Rodolfo Manuel Bermudez, for a portion of the lands known as "Punta Patitlla" decision of the Umpire, award No. 220, docket No. 2982, May 8, 1920—According to the description given in the written opinion of the American members of the Commission, "Punta Patitlla" is a very picturesque property and the view from it is very beautiful. Panama City lies across the bay from it, and this city and the American city of Ancon, and the islands in the bay are all within plain and the islands in the bay are all within plain view.

On account of its location in the vicinity of the On account of its location in the vicinity of the residential section of this capital the Government of Panama intended to convert a portion of this property into a park, and to erect therein a monumental statue of Balboa subscribed for by the Spanish-American Republics. This project had to be abandoned, however, when in October, 1913, the United States Government took possession of the property for its coast defenses.

1913, the United States Government took possession of the property for its coast defenses. In 1914 when the claimants presented th's claim to the Joint Commission it was impossible for them to state the exact area taken by the Government for the reason that they were not permitted to enter upon their property to survey it, and it was not until the year 1918, when the Governor of the Canal Zone addressed a communication to the Secretary of Foreign Affairs of the Republic of Panama stating that the United States Government would require 50.6 hectares, that the exact ment would require 50.6 hectares, that the exact area expropriated was definitely known. This information was given the Republic of Panama on account of the fact that the property lies outside the Canal Zone and within the limits of the City of Panama.

In addition to the 50 hectares actually expropriated the Government of the United States occupied an area of about 100 hectares. During the war trenches were dug within this area, and after a period of about five years it was returned to

the claimants.

Counsel for the Government admits the validity of the title of the claimants to the property, and the Commission has disagreed on the quesand the Commission has disagreed on the ques-tion of the value only, this claim being one of the largest in area which has been submitted to the undersigned Umpire for decision. In connection with the value of this property as estimated by one of the witnesses for the Government, the American members of the Com-

overnment, the American members of the Commission state:

"We can not agree with the Government's witnesses as to the value of said lands prior to 1903. We are of the opinion that they had a much greater value prior to November, 1903, than the amount testified to by said witnesses. In placing

a value upon these lands we must take into cona valie upon these lands we must take into consideration the conditions existing on the Isthmus prior to 1903 and subsequent thereto, and when we do this, we must conclude that the lands, prior to November 18, 1903, had a higher value than that placed upon them by said witnesses." Nevertheless, these same Commissioners appraise the value of a tract of land consisting of one-half million source meters, situated in the

one-half million square meters, situated in the immediate vicinity of the residential section of Panama, within the limits of the City of Panama and consequently belonging to the Republic of Panama according to the Treaty, in the sum of \$3,795; that is to say, three-fourths of a cent per square meter. For the occupation of 100 hectares for a period of 5 years they consider that claimants should be compensated in the sum of \$300 or at the rate of \$60 a year.

The Panamanian members of the Commission, however, taking into consideration the fact that this land was within the limits of the City of Panama when the United States Government decided upon the exact area to be taken, appraise its value in \$101,200, and estimate the damages sustained by the claimants on account of the 5 years occupation of the 100 hectares contiguous to the expropriated section, in the sum of \$1,200. With reference to that portion of the estate known as "Juan Diez Caballero" located outside

the Canal Zone at the time of its expropration, my

the Canal Zone at the time of its expropration, my award No. 199 dated August 2, 1919, states:

"The remaining 12 hectares, having belonged to the City of Panama up to the year 1914, form an exception in these claims. Due to the circumstances, I feel that the provisions of Article VI of the Treaty of November 18, 1903, to which I have strictly adhered since my appointment as Umpire, should not in this instance be applied for the purpose of valuation. Article II of the Treaty covers this point clearly and explicitly. That article reads:

article reads:

The Republic of Panama grants to the United States in perpetuity the use, occupation, and control of a zone of land and land under water for the construction, maintenance, operation, sanitation, and protection of said canal of the width of 10 miles extending to the distance of 5 miles on each side of the center line of the route of the on each side of the center line of the route of the Canal to be constructed; the said zone beginning in the Caribbean Sea 3 marine miles from mean low water mark and extending to and across the Isthmus into the Pacific Ocean to a distance of 3 marine miles from mean low water mark with the proviso that the cities of Panama and Colon and the harbors adjacent to said cities, which are included within the boundaries of the zone above described, shall not be included within this grant. this grant.

Consequently, I consider that in this very particular case also, the general principles of law relative to forcible expropriation are applicable, and I concur with the Panamanian members of the Commission in their opinion that claimants should be compensated in the sum of \$101,200 for the 50.6 hectares expropriated, and \$1,200 for the damages sustained by them on account of the occupation by the United States of 100 hectares for a period of 5 years.

An award is therefore hereby made against the United States of America in the total sum of \$102,400 United States currency, in favor of Julia del Carmen Bermudez de Aleman, Enrique Bermudez and Rodolfo Manuel Bermudez, for all right, title, and interest which they may

Bermudcz and Rodolfo Manuel Bermudcz, for all right, title, and interest which they may possess or may have possessed in and to the 50.6 hectares of the property known as "Punta Paitilla" located within the limits of the City of Panama, subject of claim docket No. 2982, including any and all damages sustained by them on account of the expropriation of this property by the United States and on account of the occupation by the United States of an additional area of 100 hectares for a period of 5 years. This award shall be paid in the proportions and amounts as follows:

To Julio del Carmen Bermudez de Ale.

To Julio del Carmen Bermudez de Ale-

Total.....\$102,400

This award shall be paid on or before the 8th day of June, 1920, and if payment or tender of payment is not made on or before that date said award shall thereafter bear interest at the rate of 6 per centum per annum until paid.

Done in the National Palace, Panama, this eighth day of May, 1920.

(Sgd.) MANUEL WALLS Y MERINO,

In the matter of the claim of the heirs of Oscar Muller, for sand taken at Chame Point and for damages resulting to the estate of "Punta de Chame." from the remoral of such sand, decision of the Umpire, rule of dismissal No. 459, docket No. 3108, May 8, 1920—"Punta de Chame" is a peninsula on the coast of the Republic of Panama about 27 miles west of the City of Panama. In December, 1908, the Government of the United States obtained permission from the Government of the Republic of Panama to remove sand below high water mark, the property of the nation, from the shores of this point for Canal construction purposes. purposes.

The American members of the Commission The American members of the Commission deny claimants' title to the property while the Panamanian members are of the opinion that claimants have a legal title and estimate the value of the sand taken and the damages sustained by them in \$40,151.80. None of the Commissioners, however, have visited this property in order to decide the questions involved in the claim.

As stated by counsel for claimants, "This claim

(a) for sand taken out of the estate known as "Punta de Chame" and

(b) for the damage to the said estate caused by the removal of sand therefrom which has brought about

(c) the sinking of considerable portions of the estate, as well as

the damages resulting from the changing of the water currents in that section which has interrupted and stopped the accretions at that

place."
After having made an ocular inspection of "Punta de Chame" accompanied by counsel for the Government, counsel for the claimants, and an expert witness who testified during the trial of the case; and after hearing arguments made on the ground by counsel for both sides,

trial of the case; and after hearing arguments made on the ground by counsel for both sides, the undersigned is of the opinon that:

(a) On account of the flat formation of the beach and the great distance the waters recede from the shores at low tide, and the draught of the dredges engaged in the work of removing the sand, which dredges required not less than 19 feet of water in which to operate; it would not only have been a physical impossibility to take sand from the mainland itself as alleged by claim. sand from the mainland itself, as alleged by claimants, but the dredging operations even near the shore had to be limited to the high tides;

(b) The fact that the storm which occurred the night before the inspection trip did considerable damage to the opposite side of the property from which no sand was taken, uprooting trees, washing away a melon patch, etc., goes to show that any changes which have taken place on this point have been brought about by the storms and tides in this section and are not the result of the dredg-ing operations of the United States Govern-

ment;
(c) In view of the fact that counsel for the Government of the United States introduced in evidence an old English navigator's chart dated the company of the 1847 which shows that the general outline of the coast of "Punta de Chame" at that time was about coast of "Punta de Chame" at that time was about the same as it is to-day, claimants in failing to produce a navigators' chart showing any change in the coast line have also failed to prove their assertion as to the "sinking of the property." (d) The assumption to the effect that the local currents, as well as the great Peruvian cur-rent, have changed as a result of the above-

mentioned dredging operations, is rather chimeri-

It having been proved that all of the sand taken was from below high-water mark, the property of the nation, and therefore beyond the limits of any privately owned property, and being convinced that no damage has resulted to the estate known as "Punta de Chame" from the removal of sand as above mentioned, the claim of the heirs of Oscar Muller, docket No. 3108, is hereby dismined.

dismissed.

Done in the National Palace, Panama, this 8th day of May, 1920.

(Sgd.) MANUEL WALLS Y MERINO,

In the matter of the claim of the Playa de Flor Land and Development Company, for property located in the District of Cristobal, decision of the Umpire, judgment No. 460, docket No. 2900, May 8, 1920—At the request of the Government of the Republic of Panama, dated April 23, 1920, to pass upon the disagreement of the Joint Com-mission in regard to the rule of default entered in the above-entitled case on November 21, 1919, I have carefully studied the record and in my opinion inasmuch as the claim has not been heard, and in view of the fact that no formal rule has In the matter of the claim of the Playa de Flor opinion massince as the claim has not been heard, and in view of the fact that no formal rule has been signed by the Commission dismissing the case, the claim of the Playa de Flor Land and Development Company, docket No. 2900, is etill pending decision and should be tried whenever the Joint Commission is reorganized.

(Sgd.) MANUEL WALLS Y MERINO,

### Cockerels for Sale.

There are available for sale at the Summit poultry farm 50 single-comb white Leghorn young breeding cockerels at \$3 each, f. o. b. Sum-mit. Prospective purchasers may inspect these cockerels at the farm.

### Sale of Bus Bodies.

Sealed bids will be received in the office of the Sealed bids will be received in the omce of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10.30 a. m., June 1, 1920, and then opened, for the purchase of four bus bodies, removed from Panama Railroad busses which formerly operated in the Ancon-Balboa district. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all hids. reserves the right to reject any or all bids.

### Sale of Building at Las Cascadas.

Sealed bids will be received in the office of the Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10.30 a. m., May 16, 1920, and then opened, for the purchase of house No. 111, located east of the railroad track at Las Cascadas. The Panama Canal reserves the right to reject any or all bids. Forms of proposal may be had upon application to the Chief Quartermaster.

### Additions to Commissary Stock.

Dry Goods Section.

Embroideries, flouncing, yd	\$0.56
Kimonos, crepe, embroidered, cotton, ea	3.25
Powder, Talcum, Mennen's, large tin	.20

Ribbon, satin, forget-me-not, 2-tone color,	
No. 1½, yd Ribbon, satin, forget-me-not, 2-tone color,	\$0.10
Kippon, satin, forget-me-not, 2-tone color,	
No. 2, yd	.21
No. 3. vd	.32
No. 3, yd	,02
No. 5, yd	. 43
Ribbon, hair, satin, taffeta, assorted	
No. 5, yd Ribbon, hair, satin, taffeta, assorted colors, yd. Ribbon, hair, satin, taffeta, fancy, yd.	,60
Ribbon, hair, satin, taffeta, fancy, yd	.86
Ribbon, hair, satin, taffeta, fancy, yd. Ribbon, hair, satin, taffeta, fancy, yd. Ribbon, hair, satin, taffeta, black, yd. Ribbon, hair, satin, taffeta, fancy, yd. Ribbon, taffeta, green, No. 1½, yd. Ribbon, taffeta, green, No. 2, yd.	1.00
Ribbon, hair, satin, taffeta fancy vd	1.05
Ribbon, taffeta, green, No. 11, vd.	.10
Ribbon, taffeta, green, No. 5, yd	.19
Ribbon, taffeta, green, No. 2, yd	.13
Ribbon, satin, taffeta, yd	.60
Shirts man's parliage white with laws	3.15
Sheets, 90 x 108, ea. Shirts, men's negligee, white, with laundered cuffs, ea. Shirts, men's negligee, coat style, soft cuffs,	2.60
Shirts, men's negligee, coat style, soft cuffs.	2.00
ea	2.20
Stationery:	
Books, stenographer's note, 41 x 9, ea	.08
Books, stenographer's, note, 6 x 9, ea	.10
Books, ledger, 300 pages, 8 ³ x 14, ea Books, journal, 300 pages, 8 ³ x 14, ea	1.40
Rooks, journal 300 pages, 87 x 14, ea	.95 1.25
Books, record, 300 pages, 84 x 14, ea.	1.35
Books, ledger, 300-pages, 81 x 14, ea	1.85
Books, journal, 300 pages, 8 x 14, ea Books, record, 300 pages, 8 x 14, ea Books, ledger, 300-pages, 8 x 14, ea Envelopes, plain white, 9½", 25s, pkg	.09
Tweed, 55/56", yd.  Serge, blue, all wool, London shrunk, 54/56", yd.  Serge, blue, all wool, London shrunk, 54/56" yd.	2.55
Serge, blue, all wool, London shrunk,	4 (0
Serge blue all wool London shrunk	4.60
54/56" vd	4.90
54/56" yd. Serge, blue, all wool, London shrunk,	
54/56", yd.  Duck, union, bleached, yd.  Duck, union, bleached, yd.  Serge, black, botany, yd.  Suitz sleaning, with fast deep goot ouit.	5.20
Duck, union, bleached, yd	.75
Duck, union, bleached, yd	.92 3.00
Suits alooping with fact drop good with	1.70
Suits, sleeping, with feet, drop seat, suit Ties, 4-in-hand, silk, fancy, ea	.84
lies, 4-in-hand, embroidered, wash, ea	.58
Ties, tubular, wash, 4-in-hand, ea	. 26
Ties, wash, 4-in-hand, ea	.53
Ties, wash, 4-in-hand, ea	.83
Vests, gauze, ladies, pink, ea	. 41
Vests, gauze, white, ea	2.43
Wrappers, crepe, embroidered, cotton, ea.	2.75 3.00
Hardware Section.	0,00
Athletic goods: Gut, trimming for tennis rackets, extra	
quality, 10', ea	.17
quality, 10', ea	.11
Blades, Ever Ready, safety razor, 6s, nkg.	.24
Chinaware, Minton, No. G-6262: pots.	
tea, 18", ea	6.30
CHUS, Daby, 3' X 5' ea	14.85

Holders, cigarette, ea..... 1.75 Holders, cigar, ea.
Mattresses, single, kopak, ea.
Pans, dust, with brushes, tin, Japanned, set
Pipes, wood, smoking, ea.
Pipes, wood, smoking, ea. 1.75 .59 .24

### COMMISSARY NOTES.

### Books.

Books received:

"Four Horsemen of the Apocalypse," by Blasco Ibafiez; "The Man Who Understood Women," by Leonard Merrick.

### Laundry.

Occasional delays in the return of laundry are experienced by employees due to the fact that they fail to write the address on the laundry list. All employees are urged to be sure to give the address, for when this is not done it means inconvenience to them as well as extra work on the part of the laundries.

## THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

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Volume XIII.

Balboa Heights, C. Z., May 19, 1920.

No. 40.

### Panama Railroad Steamship Line Service to Atlantic Ports of Colombia.

The steamship Allianca of the Panama Railroad Steamship Line will sail from Cristobal for Cartagena and Puerto Colombia, Colombia, about June 3 or 4, to secure cargo for Cristobal, New Orleans, and New York, and will accept cargo and passengers from Cristobal for these Colombian ports.

The Allianca is due to sail from New York May 25, and to reach

Cristobal by June 1.

### Diesel Oil.

The price of Diesel oil, sold by three companies with tanks at the Balboa terminal, has been advanced to \$3.50 per barrel of 42 gallons.

### Passage of a Steam Yacht.

The British yacht *Emerald*, property of Sir Arthur du Cros, arrived at the Canal on May 17, on the way to Southampton, via Bermuda. She is a vessel of 854 gross tons, 212 feet long by  $30\frac{1}{2}$  feet beam, and carries a crew of 43. Her coal consumption was stated at 17 tons per day, at 9 knots.

### Sales of Liquid Fuel to Ships.

The forms of liquid fuel sold to vessels at the Canal are crude fuel oil, Diesel oil, and gasoline.

The quantities sold per month have varied considerably, due to a fluctuating demand, price changes, etc., as well as to variations in the

contracts of the companies selling oil at the Canal.

For the six months ending March 31 the average sale of crude fuel oil per month was 214,270 barrels of 42 gallons each. The consumption has been increasing and it may be stated that sales are now running on an average of about 240,000 barrels per month, of which 55,000 are sold at Balboa and 185,000 at Cristobal.

Diesel oil is sold only at Balboa. The average sales are approximately 10,000 barrels per month. A tank is being erected at Cristobal for

Diesel oil storage at the Atlantic terminal.

Gasoline is sold from tanks in bulk and in drums at Balboa and Cristobal. Sales have flucutated greatly, but 20,000 gallons per month at Balboa and 30,000 gallons at Cristobal may be taken as the average.

With respect to the average time required to load these products on board, fuel and Diesel oil may be delivered as fast as the intakes of the ship will permit. In actual practice the delivery is at about 900 barrels per hour, though the facilities are equal to supplying oil as fast as 3,500 barrels per hour. Deliveries of gasoline can be made at the rate of approximately 200 barrels (8,400 gallons) an hour, which is in practice faster than the yessels have been able to receive it.

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight May 15, 1920.

	Canal	1 7 1	10 Kg	4,924	7,349 3,047	4,652	4,116	2,977	1,662 1,832	4,705	2,958	6,807 69	1 20	က်	3,033	4,289	8 622	0 7.42	3,213		5,095	759 4,732 4,356	
	Panama Canal tonnage	-			9,465	6,625				6,611		9,505		5,018	4,182	5,886	1.187		4,310		7,065	1,241 6,170 6,106	
	_8,_	Tons			7,717		6,761		983	3,729	390	200			4,210	43 571	145		3,830		8,850 6,805	7,200 3,874	
		Cargo		General	General Sugar and gen	Coal and general 10,700	Phosphate	Petroleum, ref	Gen., live stock	General	General	General General		General	General	General	General		General		Ballast Nitrate	General General Nitrate General	
		For		Los Angeles Guayaquil	Yokohama	Singapore	Kobe	San Francisco.	Valparaiso Caleta Buena.	San Francisco.	Champerico	Valparaiso	Gatun Lake	Callao	Corral	Valparaiso	Gatun Lake	Iquique	Valparaiso  General		Tampico	Liverpool Cristobal Alexandria	
		From—		New York	New York	New York	Tampico.	Beaumont				Amsterdam		Cristobal	Glasgow	Genoa	Cristobal		Glasgow			Liverpool Corinto Caleta Buena. Hongkong	
	Salt			19.0	23.53 52.53 50.50 50.50	28.0	25.0	28.0	15.6 14.0			16.6			53_	15.0		9	18.0		19.5 28.0	26.3 24.1 20.9 20.9	
CIFIC.		Beam		54.0 33.5	58.0 47.0	6.68	54.5	63.0	43.2	53.0		62.5	٠.		46.0	51.0			49.0	LANTIC	57.0	52.1 52.1 54.0 54.0	-
IC TO PA		Length Beam		410.0	465.0 360.0	429.0	400.0		243.5	401.5		444.0		381.2	360.0	391.0			359.0	C TO AT	425.	511.6 216.0 405.0 390.0	
THROUGH THE CANAL-ATLANTIC TO PACIFIC.		Line		United States Shipping Board Pacific Steam Navigation Co	City Line, Ltd. United Steel Products Co.	Dollar Steamship Co.	Tatsuma Steamship Co	South American Steamship Line. Standard Transportation Co	Seaboard and Gulf Steamship Co. United States Shipping Board	United States Shipping Board.	Capper Alexander	Royal Netherland Steamship Co.		Pacific Steam Navigation Co	F. & W. Ritson	Soc. Nazionale di Nav.	Chas. Simonsen.	Stoomvaart Maatschappij N	United States Shipping Board	THROUGH THE CANAL-PACIFIC TO ATLANTIC.	W. Wilhelmsen W. R. Grace & Co	Pacific Steam Navigation Co Pacific Steam Navigation Co Andrew Weir & Co United States Shipping Board	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
		Nationality		American British	_	American	4-01	Chilean	American			Dutch		Peruvian	British				J. American 2 British			British British British American	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
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		Ship		Bakersfield	City of Oran	Grace Dollar	Ayaha Maru	Standard Arrow	Kennebee	Bearport	Sudbury	Alkmaar	Margarita (b).	Manavi Uruhamba	Laurel Branch.	Ansaldo San Giorgio II Ralbos	Mercedes (a).	Sumatra	Morristown  Dunclutha	(a) Launch.	Belridge Santa Paula	Orcoma Manavi Roseric Sagaporack	7.0

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4,816	622											1.593		3.492	2,459	1,575	4,562	4,690	:	1,424	0,03%
6,841	1,187	1,858	8,674	2,486	2,510	2,773	10,987	5,726	6,108	2,751		2,379	8.278	5,037	3,739	2,510	6,111	6,528	-	2,189	0,810
8,400	787	2,500	1,000	3,100	3,014	3,700	7,433	4,195	6,661	3,500	6,740	1,552		000.9	2,692	3,110	7,072	7,516	6,783	2,300	17,000
Nitrate	General	Barley	Nitrate	Nitrate	Nitrate	Copper, wool	C. S. and general	General	Flour	Nitrate	Flour	General	Ballast	Copper, nitrate.	General	Nitrate	Nitrate	General	Flour	Nitrate	Mulate
Savannah (d)										Wilmington	New York	Cristobal	Baton Ronge	New York	P. Colombia	Matanzas	Liverpool	New York	New York	Matanzas	I Ivew Orleans
Iquique	Buenaventura.	Valparaiso	Caleta Colosa.	Caleta Colosa.	Junin	Antofagasta	Wellington	Valparaiso	Portland		_	_	_	Valparaiso		Mejillones	_	Noumea		Mejillones	Mejinones
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395.5								360.	399.	253	400.	283.0	440	400.	345	250.	400	400.	384.	252.	409
United States Shipping Board	Pacific Steam Navigation Co	British Government	United States Shipping Board	United States Shipping Board	United States Shipping Board	Garland Steamship Co.	Commonwealth and Dom. Line.	W. R. Grace & Co.	United States Shipping Board	United States Shipping Board	United States Shipping Board	Pacific Mail Steamship Co	Standard Transportation Co	Sherman Steamship Co.	Pacific Mail Steamship Co	. United States Shipping Board	Andrew Weir & Co	. United States Shipping Board	. United States Shipping Board.	United States Shipping Board	. United States Shipping Doard
American	British		American	American	American	American	British	American	American			₹,	American	4	•	5 American	5 British	5 American	5 American	American	of American
	6.1	6.3	1 22.1	3.5	3 15.30	3 7.2	23.43	22.2	3 15.0	2.5	22		3 19.1	4.5	5 11.3		2	3.4	5 3.1	7.1	0.7
3.57 10		14 15	55 11	. 13 15	14 1:	00	.50	3.25 15	44 13	30 12		_	10 1	36 12		60.	0.15 15	.52 18	т.	30 1	1 61.3
10 18	29	=	Ξ	=	12	12	12	12	12	13 [21	133	13 20	13 11	23	14 20	7	14 11	14 119	7	15 2	Z eI
7.23	9.27	7 10	8.28	8.35	6.33	8 42	8.58	9.42	10 00	6.26	6.40	10.13	10.59	12.26	6.36	6.44	7.34	10.00	10.01	6.33	11.00
14.00		75	30	35	12	8	30	40	8	200	5	47	8	100	00	20	00	35	00	15	er  00.22
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Bellepline	Delit	Clevedon (c)	Henry Clay	Lake Licoco.	Calaveras	Gravaon	Port Napier	Santa Teresa	Fostern Glade.	Coverin	Fastern Virtor	Son Inan	Townmach.	Shorman	City of Para	Calicorock	Tymeric	lceland	Eastern Planet	Lake Shore	John Adams

(c) Sailer. (d) For orders.

PORT OF CRISTOBAL.

١.			
	For-	New York and Habana. Tampico. San Juan, P. R. Kingston, Jamaica. Cartagene. Port Limon. New York. New York. New York. New York and Haiti. Kingston. New Orleans and Bocas. Colon. New York and Colombia. New York and Colombia. New York and Colombia. New York and Colombia. New York and Colombia. New York and Colombia.	(Continued on page 597, column 2.)
*DEPARTURES.	Line.	United Fruit Co.  Sandard Oli Co.  Tampico.  San Juna.  Choebotham & Sons.  Chied States Army.  Chied States Army.  Chied States Shipping Board.  Naw York and Haiti.  Sandard Oli Co.  Fartagena.  United Fruit Co.  Naw York and Haiti.  Sandard Oli Co.  Kingston.  K	(Continued on page
	Vessel.	Calamares. L. J. Drake. S. J. S. Drake. Sh. Kitts (f). Van Renseher. Pastores. Lake Plattery Panama. El Capitan. Tiverton. Tiv	
	Date.	May 9  May 10  May 11  May 11  May 12  May 12  May 13  May 13  May 13  May 13  May 14  May 14  May 14  May 14  May 14  May 14  May 14	
	From—	Port Limon. Port Limon. Norfolk. Colorado Bar. Colorado Bar. Manchester. St. Lucia. New Orleans. New Orleans and Habana. New York and Kingston. Port Limon. New York and Kingston. Port Limon. Mew York and Kingston. Colon. Bordeaux and wayports. New York and Kingston. Colon.	ner,
*ARRIVALS.	Line.	United Fruit Co.  Royal Datch West India Mail Co.  Royal Datch West India Mail Co.  Protata Railroad Steamship Line.  Associated Oil Carriers.  Manchester.  Choebotham & Sons.  United States Army United Fruit Co.  Standard Oil Co.  New York and King United States Shipping Board United Fruit Co.  New York and King United States Shipping Board United States Shipping Board United States Shipping Board  Carlobean Steamship Co.  New York and King W. Y. N. Powellson  Brench Line  Bordeaux and wayap  Bordeaux and wayap  Rench Line  Bordeaux and wayap	(e) And barge Darien. (f) Tug. (g) Transport. (h) Motor schooner.
	Vessel.	Calamares Van Rensolaer. Ulyses (e). Botsford Tivetron Santa Leonora (j). Santa Leonora (j). Heredia Heredia Harton Exatra Leonora (j). Ratonian. Santa Marta Lake Elatters (aldas Arabia (h). Haiti Gen. W. C. Gorgas.	barge Darien. (f) Tu
	Date.	May 9.  May 9.  May 9.  May 10.  May 11.  May 11.  May 11.  May 11.  May 12.  May 12.  May 13.  May 13.  May 14.  May 14.	(e) And

(e) And barge Darien. (f) Tug. (g) Transport. (h) Motor schooner.

### Another Service Between West Coast of Central America and New Orleans.

The New Orleans and South American Steamship Company which operates a monthly service between New Orleans and ports of Ecuador, Peru, and Chile, as well as a Caribbean service, calling at Habana, Porto Rican ports, Trinidad, Guadeloupe, and other West Indian ports, thence to Cristobal to load for New Orleans, has established connections with the Pacific Mail, to handle shipments from the west coast of Central America to New Orleans. Shipments are transferred at Cristobal. Special attention is being devoted to the coffee and sugar traffic.

The through service of the New Orleans and South American Company to the west coast of South America operates a steamer each way approximately monthly, and the Caribbean service sends a ship to Cristobal also about once a month. At present only the ships in the latter service are handling cargo at the Canal; the line down the west

coast handles through cargo in both directions.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending May 15, 1920.

				Cargo	)—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Van Renselaer	Royal Dutch Steamship Co	May 9	May 11	Tons. 118	Tons.
Ulysses	Panama Railroad Steamship Line.	May 9	May 11 May 13		
Darien (*)	Panama Railroad Steamship Line.	May 9	May 13		
Calamares	United Fruit Co	May 9	May 13		
Sudbury	Royal Mail Steam Packet Co	May 10	May 12		461 68
Tiverton Santa Leonora	Royal Mail Steam Packet Co United States Army	May 10 May 11			00
Heredia	United Fruit Co	May 11			62
Pastores	United Fruit Co	May 11	May 12	32	1 20
Santa Marta		May 12			249
Ansaldo San Giorgio II San Juan	Italian Navigation Co	May 12	May 13		
Dunclutha			May 15		290
Caldas	Caribbean Steamship Co	May 14		33	
Chinampa	Standard Oil Co				
Gen. W. C. Gorgas Haiti					
Jamaica	French Line	May 15	May 15		
	Pacific Steam Navigation Co		May 13		

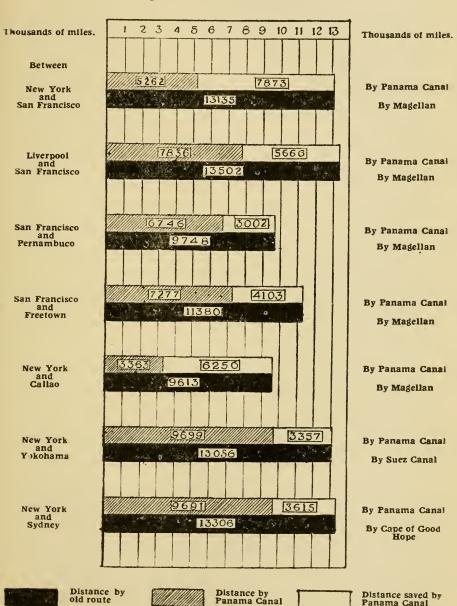
Barge. † Coal. ‡ Oil.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending May 15, 1920.

				Cargo—			
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.		
				Tons.	Tons.		
Manavi	Pacific Steam Navigation Co	May 8	May 9				
Jamaica	Pacific Steam Navigation Co	May 10	May 10	13			
San Juan	Pacific Mail Steamship Co	May 11		355	1		
Cansumset	United States Shipping Board	May 12		2,408			
Constance	Panama American Timber Corp	May 12					
Joan of Arc	Rolph Mail Steamship Co	May 13		282			
Ansaldo San Giorgio II					16		
Balboa	Columbia Maritime Co	May 14			70		
City of Para	Pacific Mail Steamship Co	May 13					
Jamaica	Pacific Steam Navigation Co		May 15		21		

### Distances Saved by the Panama Canal.

The great savings in distances at sea brought about by the Canal have been illustrated in many ways. The chart on following page gives a graphic presentation of the shortening of distances between some of the representative ports. The heavy black lines or areas represent the distances between the ports indicated by the routes other than the Canal. Imposed above this black line, the hatched area indicates the distance by the Canal, and the area in white shows the nautical miles saved by the Canal. For example, the old distance between New York and San Francisco, 13,135 miles, has been reduced to 5,262 miles, a saving of 7,873 miles. The areas are drawn to scale, and show at a glance the relative distances and economies.



### Dollar Line Trying Out Atlantic-Far East Service.

The steamships Stanley Dollar, arriving at the Canal May 5, and Grace Dollar, arriving on May 9, going in opposite directions, are engaged in a tentative service of the Robert Dollar Line between New York and the Far East. If business warrants, a regular service over this route is to be established by the operators.

### Service to and from Costa Rica.

The United Fruit Company has reestablished a weekly freight and passenger service between Cristobal and Port Limon, Costa Rica. The ships leave Cristobal on Wednesday afternoon, arriving at Port Limon the next morning: and returning, leave Port Limon at 5 p. m., Saturday, and reach Cristobal Sunday morning. The distance be-

tween Cristobal and Port Limon is 192 nautical miles.

The vessels engaged in this service are the Calamares, Pastores, Toloa, and Ulua, which ply between New York and Cristobal by way of Habana and make a side trip to Port Limon. The service was begun with the steamship Calamares, which arrived at Cristobal from Habana on May 4, left on the 5th for Port Limon, returned to Cristobal on May 9, and cleared the same day for Habana, on the way to New York.

Cn the Pacific side, the Pacific Mail operates semimonthly freight and passenger service between the Canal ports and Puntarenas, Costa Rica, employing the ships in the regular San Francisco-Panama line, and the Pacific Steam Navigation Company operates freight and passenger service with the steamship Salvador, which goes as far north as Champerico, Guatemala, with calls at Puntarenas both ways. The Salvador makes the voyage every 25 days. The distance to Puntarenas from Balboa is 471 miles.

The Royal Mail Steam Packet Company has an approximately monthly sailing between Puntarenas and Cristobal, as also a monthly

steamer from Port Limon to Cristobal.

### Bound Volumes I and IX Wanted.

The reserve stock of bound Volumes I and IX of THE PANAMA CANAL RECORD has become practically exhausted and these volumes have been withdrawn from sale. In order to secure a stock, it would be appreciated if anyone who may have official or personal copies which are no longer needed, would return them to the Executive Office. Copies of other volumes may be obtained in exchange for Volumes I and IX.

### Cable Censorship.

The All-America Cables advises that censorship has been established in Honduras and Salvador and Vera Cruz and Puerto Mexico. All messages must have name of code used, and be sent at sender's risk.

### Revision of Telephone Directory.

The copy for a revised telephone directory, to be issued as of June 15, 1920, will go to the printer June 1. All changes or corrections in the present directory should be forwarded to the Supervisor of Telephones, Balboa Heights, not later than June 1, Proof corrections will be made to June 6.

### Insurance in the Canal Zone.

A statement of insurance business transacted in the Canal Zone in 1919, as taken from the annual reports of the companies, follows:

	Gross premiums.	Gross losses paid.
American Surety Company.		
Fidelity Surety.	* \$15.09 106.67	\$38.38
Total	\$91.58	\$38.38
Maryland Casualty Company. Accident.	1 \$31.19	
Health	6.00	379.29
Liability	2,567.57 557.89	379.29 10.88
Fidelity	120 34	
Surety Burglary and theft Auto and teams property damage.	2,117.92 102.60 28.27	
Auto and teams property damage	* 28.27	
Total	\$5,195.66	\$390.17
Maryland Assurance Company.		
Accident Health.	\$12,203.05 924.46	\$2,721.92 325.11
Total	\$13,127.51	\$3,047.03
	\$10,127.51	<b>\$5,047.05</b>
National Surety Company. Fidelity	\$154,68	\$1,050.98
Surety	773.05	
Total	\$927.73	\$1,050.98
United States Fidelity and Guaranty Company.		
Fidelity. Surety.	\$53.25 \$1,507.49	
Total.	\$1,560.74	
Return premiums		
	Number.	Amount.
Home Life Insurance Company.		
Policies in force December 31, 1918. Policies issued during 1919.	347 118	\$603,951.00 357,943.00
Total. Policies lapsed during 1919.	465 27	\$961,894.00 59,149.00
Total. Losses and claims unpaid December 31, 1918.	438	\$902,745.00
Losses and claims incurred during 1919.	1	1,000.00
Losses and claims incurred during 1919. Losses and claims settled during 1919. Losses and claims unpaid December 31, 1919.	1	1,000.00
Premiums collected in 1919.		1,000.00 \$33,918.09
Manufacturers Life Insurance Company.		
Policies in force December 31, 1918.	1	1,500.00
Policies issued during 1919		
Total	1	1,500.00
Policies lapsed during 1919 Policies in force December 31, 1919 Losses and claims unpaid December 31, 1918		1,500.00
		1,500.00
Losses and claims incurred during 1919		
Losses and claims unpaid December 31, 1918 Losses and claims incurred during 1919 Losses and claims settled during 1919 Losses and claims unpaid December 31, 1919 Premiums collected in 1919		***************************************
		\$93.15
Pan-American Life Insurance Company.		
Policies in force December 31, 1918. Policies issued during 1919.	140	\$266,800.00 250,500.00
Total	247 27	517,300.00 46,500.00
Folicies lapsed during 1919.	. 24	
Policies in force December 31, 1919 Losses and claims unpaid December 31, 1918. Losses and claims incurred during 1919 Losses and claims settled during 1919 Losses and claims unpaid December 31, 1919. Premiums collected in 1919	226	\$470,800.00 2,000.00
Losses and claims incurred during 1919.	1	
Losses and claims settled during 1919.	. 1	2,000.00
Premiums collected in 1919		\$16,438.71

· RECAPITULATION. Miscellaneous Companies.	Premiums received in 1915.	Losses paid in 1919.
Accidents	\$12,171.86	\$2,721.92
Auto and teams property damage Burglary and theft.	1 28 . 27	
Burglary and theft	· 102.60	
Fidelity	313.18	1,089.36
Health	918.46	325.11
Liability	2,567.57	379.29
Surety	4.505.13	
Workman's compensation	557.89	10.98
Total	\$20,903.22	\$4,526.56

¹ Return premiums.

Life Insurance Companies.	Number.	Amount.
Policies in force December 31, 1918. Policies issued during 1919. Policies lapsed during 1919. Policies in force December 31, 1919. Losses and claims incurred during 1919. Losses and claims settled during 1919. Losses and claims outpaid December 31, 1919. Premiums collected in 1919.	225 54 659 1 2	\$872,251.00 808,443.00 105,649.00 1,375,045.00 1,000.00 3,000.00 1,000.00 50,449.95

No fire, marine, or tornado insurance companies did business in the Canal Zone in 1919.

The absence of fire insurance companies is due to the fact that practically all real estate in the Canal Zone is owned by the Government of the United States, which does not insure its property. The fire losses have been kept down to a remarkably low figure by the Canal Zone fire department.

In the report for 1918, a statement of the population of the Canal Zone was given, based on the police census of June, 1918, showing a total of 21,707, divided roughly as follows: 2,874 male Americans, mostly employees; 7,842 male aliens, mostly employees; 3,816 American women and children, consisting of female employees and families of employees; 7,175 alien women and children, consisting largely of

families of employees.

The police census of August, 1919, showed a total population of 21,759, exclusive of the military population—an increase of 52 over the civil population of June, 1918. The census of 1919 showed the following approximate divisions of the population: 3,141 male Americans, mostly employees; 7,376 male aliens, mostly employees; 3,890 American women and children, consisting of female employees and families of employees; 7,352 alien women and children, consisting largely of families of employees.

### Weather Conditions in April, 1920.

Rainfall for the month was below normal everywhere except at Pedro Miguel, the deficiency being extremely marked in the Atlantic section and over most of the Gatun Lake drainage basin. Totals ranged from 0.06 inch at Frijoles and Bohio to 5.08 inches at Pedro Miguel. The greatest amount of rainfall recorded on any one day was 1.98 inches at Balboa Heights on the 17th.

The estimated rainfall over the Gatun Lake watershed was 0.87 inch, compared with a 10-year mean of 4.76 inches, and over the Chagres River basin above Alhajuela it

was 1.53 inches, compared with a 19-year mean of 4.60 inches.

The air temperature, surface temperature of the sea, and the evaporation were above the average, while the atmospheric pressure, relative humidity, and daytime cloudiness were below normal. The wind movement was slightly below normal on both coasts and slightly above normal over the interior.

A few fogs were observed at interior stations, all of which were dissipated by 7.30 a. m.

Slight earthquake shocks were recorded on the 8th and 27th.

The 4-month dry season rainfall is the lowest on record since the American occu-

pation, being slightly lower than that of 1912.

Gatun lake hydrology-Mean elevation of Gatun Lake was 82.98 feet; maximum, 83.54 feet on the 1st; minimum, 82.29 feet on the 30th; evaporation from Gatun Lake surface, 7.257 inches; rainfall on Gatun Lake drainage basin, 0.87 inch; total yield of Gatun Lake watershed, 0.36 inch on the watershed; the total yield amounted to 41 per cent of the rainfall.

The following table gives a summary of weather conditions for the month:

	uced 24			Tempera	ture.		Pı	ecipita	tion.	-			Win	d.	
Stations.	Pressure (reduce to mean of 24 hours).	Mean.	Maximum.	Date.	Minimum.	Date.	Mean relative humidity.	Total inches.	Station aver- age.	Days with 01 inch or more.	Total move- ment (miles).	Prevailing direction.	Maximum velocity in miles.	Direction.	Date.
			93 96	April 5 April 12 April 11 April 18	75 72		76 8 78.0	3.02 1.72 1.48 .14	3.09 4.29 3.64 5.65	8 9 6 2	6,026 8,528 4,474 6,439	N.W. N. N.E. N.	34 27 24 24	N. E. N. E. N. E.	April 17   April 30   April 30   April 7

^{*} And other dates.

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhousss. In cases where such announcements are not posted, persons interested may obtain data on application to the Board of Civil Service Examiners, Balboa Heights (telephone 286):

Proof director (male and female); \$2,000 to \$3,000 a year; No. 209-amended; June 8, 1920; form

1312; age, 21 years and over.*
Mine inspector (male and female); \$2,000 to \$3,500 a year; No. 316; June 15, 1920; form 1312; age, 25 years but not 50 years.*

Administrative assistant, chief clerk or registrar, administrative assistant, property officer; No. 23-amended, supplemental; postponed from May 5 to May 19, 1920. Applicants will be admitted to this examination regardless of their age; but at the request of the department certification may be made of eligibles who are within reasonable age limits, except in the case of persons entitled to preference because of military or naval service, to whom age limits do not apply.

Assistant superintendent (male and female); \$10 to \$10.40 a day; No. 326; June 15, 1920; form 1312; age 25 years and over *

Assistant superintendent (male and remaile), \$10 to \$10.40 a day, \$10.020, \$and \$10.720, \$10.121; age, 25 years and over.*

Senior architect (male and female); \$1,800 to \$2,700 a year; No. 311; June 22, 1920; form 1312; ge, 25 years but not 50 years.* age, 25 years but not 50 years.*
Linotype machinist (male and female); 80 cents an hour; No. 305; June 23, 1920; forms 304 and

1745; age, 20 years and over.
Calculating-machine operator (male and female); \$900 to \$1,200 a year; No. 120-amended; June 23, August 18, and October 20, 1920; form 304; age, 18 years and over.
Operative (male and female); \$900 to \$1,000 a year; No. 120-amended; June 23, August 18, and October 20, 1920; form 304; age, 18 years and over.
Trained nurse (male and female); \$720 to \$960 a year; No. 1952-amended; form 1312; age, 20

Trained nurse (male and lemale); \$720 to \$900 a year; No. 1932-antended; form 1312; years but not 50 years.†

Trained nurse (Indian Service) (male and female); \$840 a year; No. 1952-amended; form 1312; age, 20 years but not 45 years.†

Mechanician qualified for work on laboratory and mining apparatus (male and female); \$1,400 to \$1,800 a year; No. 290; June 8, 1920; form 1800; age, 20 years but not 50 years.*

Foreman, 14,000-ton press for armor plate and large-caliber guns (male and female); \$11.84 to \$13.28 a day; No. 292; June 8, 1920; form 1371; age, within reasonable age limits.*

Preparator in nematology (male and female); \$660 to \$1,000 a year; No. 294; June 9, 1920; form 1301, age, 18 years and over.

94; age, 18 years and over. Chief ballistician (male and female); \$3,000 to \$3,600 a year; No. 291; June 15, 1920; form 1312; age, under 45 years.*
Wet plate process photographer (male and female); \$1,200 a year; No. 297; June 8, 1920; form

1312; age, 20 years and over, *
Physician (Panama Canal Service) (male and female); \$225 a month; No. 15-amended; July 7 and September 8, 1920; form 1312; age, 22 years but not 31 years.

Trained nurse (Panama Canal Service) (male and female); females. \$95 a month with laundry of uniform but without subsistence; males. \$100 a month without subsistence or laundry; May 23, 1920;

No. 269-amended; form 1312; age, females 20 to 35 years; males 20 to 40 years.

Mechanical draftsman, Ordnance Department at Large (male and female); grade 1, \$800 to \$1,400 a year; grade 2, \$1,400 to \$1,800 a year; grade 3, \$1,800 to \$2,500 a year; form 1835; age, 18 years

^{*}Nonassembled. Date given for nonassembled examinations is the last day for filing applications, and they must be in the hands of the Commission at Washington prior to the hour of closing business on that date.

[†]Nonassembled. Applications will be received at any time until further notice

Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by-	Date of death.
William Blackett Daniel Crooks Adolphus Curling. Raoul Abelard Ricard o Jimenez.	35458 25602 39689	Jamaica Panama Martinique	Colon Colon Camp Bierd.	Supply Department. Mechanical Division Panama Railroad Coaling Station Coaling Station.	May 9, 1920. May 10, 1920. May 11, 1920.

### Official Circulars.

### Acting Governor.

THE PANAMA CANAL, EXECUTIVE OFFICE,

Balboa Heights, C. Z., May 18, 1920. All concerned—Effective May 19, 1920, and during my absence on leave, Col. Jay J. Morrow, U. S. A., Fngineer of Maintenance, will be Acting Governor.

CHESTER HARDING, Governor.

### Acting President on the Isthmus.

PANAMA RAILROAD COMPANY, OFFICE OF THE PRESIDENT.

BALBOA HEIGHTS, C. Z., May 18, 1920.

All concerned—Effective May 19, 1920, and during my absence on leave. Col. Jay J. Morrow, U. S. A., 2d Vice President, will exercise such duties of the President as relate to the operations of the company on the Isthmus.

CHESTER HARDING, President, Panama Railroad Company.

### Acting Assistant Engineer, Section of Surveys.

THE PANAMA CANAL, Dept. of Operation and Maintenance, Balboa Heights, C. Z., May 18, 1920. To all concerned—Effective this date and during Mr. O. E. Malsbury's absence on leave, Mr. F. R. Fitch is designated Acting Assistant Engineer in charge of the Section of Surveys.

JAY J. MORROW, Engineer of Maintenance.

### Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT, BALBOA HEIGHTS, C. Z., May 12, 1920.

CIRCULAR No. 241:

Effective May 12, 1920, Mr. R. Z. Kirkpatrick is designated an accountable official of The Panama Canal, vice Mr. H. G. Cornthwaite, and as such will account for all nonexpendable property in use in the Section of Meteorology and Hydrography.

H. A. A. SMITH, .1uditor, The Panama Canal.

Approved:

CHESTER HARDING,

Governor.

### Transportation on Army Transports.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., 'May 12, 1920.

To all concerned—In making application for transportation to New York or New Orleans, on Army transports, employees are requested to show on form 194, the name, relationship, and

address of some person, either in the United States, or on the Isthmus, to be notified in case of illness or accident. This information is required by the Department Transportation Officer, United States Army, and must be furnished in all cases before transportation can be authorized. Passage money must be paid to the Port Transportation Officer, office of Captain Decker, Cristobal, C. Z., at least 48 hours before sailing of the transport. Passage money may be paid in cash, in person, or sent by mail in form of money order payable to the Port Transportation Officer, Cristobal, C. Z. If paid in cash the original transportation request (signed) must be presented; if paid by money order it must be attached thereto.

C. A. McIlvaine,

C. A. McIlvaine, Executive Secretary.

### Misdirected Letters.

BALBOA HEIGHTS, C. Z., May 18, 1920. The following insufficiently addressed mail has been received in the office of the Director of Posts, and may be obtained upon request of the addressee. Such request may be made by telephone, calling No. 182, Balboa:

Armstrong, Lloyd, Mrs. Hunter, Miss Myra* Armstrong, Lloyd, Mrs. Ayer, Mrs. F. C. Bielitz, Mrs. Adolph Bean, Dr. Dorf Burdick, H. E. Cabey, Jacob Clark, H. A. Clark, Waldo Emerson Foster, Rev. Earl W. Henson, Charles Hill, G. A. Humphrey, Favell

Hutchison, Charles E. Lawrentew, W Lawrentew, W.
Leich, John, Mrs.
Mayer, Mrs. Frank
Sargent, R. Harvey
Sperling, Martin
Sturdee, J. M.
Von Redhead, J. Smart, Miss Linda Welby, J. P. Whitaker, Mrs. Lydia

*Card.

### Sailings of Panama Railroad Passenger Ships.

The following are the expected dates of departure from Cristobal for New York, via Portau-Prince, of passenger-carrying ships of the Panama Railroad Steamship Line, but em-ployees are advised that these sailings are subject to change:

General Gorgas . . May 21 Panama . . . . . June 13 General Goethals, June 3 General Goethals, June 9 General Goethals, June 9 General Goethals, July 5

### Sale of Old French Lighter.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10,30 a. m., June 1, 1920, and then opened, for the purchase of an old French lighter, situated on part of lot 18, block 2, Folks River, Colon. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids. to reject any or all bids.

### Sale of Tug "Miraflores."

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10.30 a. m., June 30, 1920, and then opened, for the purchase of the tug Miraflores. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

### April Rainfall for Three Years.

•						
	·	INCHES				
Stations.	1918	1919	1920	Station average.	Years of record.	Rainy days, 1920.
Pacific section—Balboa Heights Miraflores Pedro Mlguel, Rio Grande. Rio Grande. Central section—Culebra Camacho Empire. Gamboa Juan Mina Alhajuela.	4.33 4.52 10.89 11.01 7.77 6.91 6.69 6.91 3.16 3.80 6.80	6.32 6.43 5.79 6.58 6.44 7.41 8.52 7.52 17.02 13.62 9.06	3.54 3.02 3.60 5.08 1.30 1.20 1.81 1.51 1.48 1.46 .83	3.91 3.09 4.26 4.48 3.51 3.73 3.66 3.58 3.64 4.20 3.66	22 22 12 13 16 30 14 16 39 10 21	7 8 8 9 5 6 6 7 6 5 6
Vigia Frijoles Trinidad Monte Lirio Atlantic section—	4.91 5.27 4.75 4.20	10.02 10.07 16.34 11.66	.64 .06 1.13 .08	3.55 4.58 4.79 5.31	12 9 13 13	2 4
Gatun	6.66 5.50 5.34 5.58	12.04 12.48 10.95 30.21 7.22	$\begin{array}{c} .14\\ 35\\ 1.72\\ 2.67\\ 3.06 \end{array}$	5 65 5 23 4 29 7 86 8 08	16 14 50 9 12	2 6 9 13 13

### Rainfall from April 1 to April 30, Inclusive.

STATIONS.	Maximum in one day.	Date.	Total.
Pacific section— Balboa Balboa Heights Miraflores Pedro Miguel Rio Grande Central section— *Culebra *Camacho Empire Gamboa *Juan Mina Alhajuela *Vicia Darien Trinidad *Monte Lirio Attantic section— Gatun *Brazos Brook Colon  †Bocas del Toro Porto Bello	Ins. 1 79 1 98 1 .28 1 .63 .42 .40 1 29 1 .13 62 61 .44 20 61 1 10 .05	17 17 17 25 21 21 23 22 21 19 16 16 19 19 19 8 29	Ins. 3.54 3.02 3.60 5.08 1.30 1.20 1.81 1.51 1.46 .83 64 74 1.38 08 1.46 .83 1.72 3.06 2.667

^{*}Standard rain gauge—readings at 5 p. m. daily. Automatic rain gauge at unstarred stations—values, midnight to midnight.

# MOVEMENTS OF OCEAN VESSELS.—Continued from page 589.

PORT OF BALBOA

	For—	Valparaiso. High seas. Valparaiso. Panama Bay.	are postmenidian.
*DEPARTURES.	Line.	Toyo Kisen Kaisha. United States Navy. Rolph Navization Co. Panama American Timber Corp. Panama Bay.	Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeri Ka
	Vessel.	May 10. Anyo Maru.  May 11. Tacoma (j).  May 14. Constance (h).	xpressed on the 24-hon
	Date.	May 10. May 11. May 14. May 14.	Hours are e:
	From-	David. Rio Congo. San Francisco.	ng through the Canal.
*ARRIVALS.	Line.	McPadden David. 2 anama American Timber Corp. Rio Congo. Aubh Navigation Co. San Francisco.	ser. *O.her than ships passing through the Canal.
	Vessel.	Gloriana (i). Constance (h). Joan of Are.	i) Gas yacht. (j) Third class cruiser.
	Date.	May 9 May 12 May 13.	(i) Gas ya

[†]Standard rain gauge—readings at 8 a. m. daily.

### Sale of Bending Roll Machine.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10.30 a.m., June 5, 1920, and then opened, for the purchase of one bending roll machine, now at Mount Hope storehouse. Form of proposal may be had upon application to Chief Quartermaster. The Panama Canal reserves the Eight to reject the up to 18 bid. right to reject any or all bids.

### Sale of Two Pile Drivers.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10.30 a. m., May 21, 1920, and then opened, for the purchase of two pile drivers, located at Cristobal storehouse. Description and form of proposal may be had upon application to the office of the Chief Quartermaster. Bids will be received on one or both of the pile drivers. The Panama Canal reserves the right to reject any or all bids. reserves the right to reject any or all bids.

### Cockerels for Sale.

There are available for sale at the Summit poultry farm 50 single-comb white Leghorn young breeding cockerels at \$3 each, f. o. b. Summit. Prospective purchasers may inspect these cockerels at the farm.

### Sale of Bus Bodles.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, up to 10.30 a. m., June 1, 1920, and then opened, for the purchase of four bus bodies, removed from Panama Railroad busses which formerly operated in the Ancon-Balboa district. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all hids. reserves the right to reject any or all bids.

### Additions to Commissary Stock.

Dry Goods Section.

21,5 22001 251110111	
Belts, women's, leather, black, 1½", ea	\$0.45
Blouses, boys', pongette, ea	1.35
Chemises, envelope, ea	3.05
Cloths, wash, ea	.15
Cloths, wash, ea	.17
Cream, dental, Lyon's, tube	. 22
Cream, shaving, Ezonall, tube	. 36
Curtain, voile, printed, 36", yd	. 47
Curtain, scrim, reversible, 36", yd	.51
Curtain, cretonne, 36", yd	. 47
Dress goods:	. 71
Not linen, 35/6", yd	66
Not linen, 35/6, yd	. 66
Not linen, 35/6", yd	. 69
Voile, white, fancy, 36", yd	. 56
Voile, white, fancy, 36", yd	. 88
Handkerchiefs, men's, white, ea	.15
Holders, Dribrush, No. 2, Alberite, ea	.47
Hose, men's, interwoven, dark tan, pr	1.25
Hose, men's, interwoven, cordovan, pr	1.25
Hose, men's, interwoven, navy, pr	1.25
Hose, men's, interwoven, slate, pr	1.25
Hose, men's, interwoven, black, pr	1.25
trose, men s, meet worten, black, pr	1.40

Hose, men's, interwoven, white, pr	\$1.25
Hose, men's, mercerized cotton, white, pr.	. 42
Hose, men's, mercerized cotton, white, pr.	. 51
Needles, White sewing machine, No. 1 and	0.0
F. R. Co., ea Nightgowns, ladies', ea	.02 3,40
Shirts, men's negligee, attached collar,	3,40
khaki color, ea	2.05
khaki color, ea Shirtwaists, women's, white voile, ea	5.40
Stationery, ink, white, Carter's, 1-oz. bot.	.11
Suitings:	
Cotton and jute, mercerized, 27", yd Duck, white linen, Imperial, 27,8", yd Duck, white linen, Imperial, 27,8", yd Duck, white linen, Imperial, 26,17,1, yd.	. 49
Duck white linen Imperial 27/8", yd.	1.80
Duck, white linen, Imperial, 27/8, yd	1.35
Ties, 4-in-hand, silk poplin, ea	.93
Ties, 4-in-hand, fancy silk, ea	1.55
Ties, 4-in-hand, silk, assorted, ea	.68
Ties, tubular, wash, ea	. 38
Ties, 4-in-hand, fancy silk, ea	.93
lies, 4-in-hand, fancy silk, open end, ea Ties, batwing, fancy silk, ea	.93
Ties, 4-in-hand, knitted cotton, ea	.51
Ties, 4-in-hand, knitted, cotton, ea	.52
Ties, 4-in-hand, knitted, cotton, ea	.66
Vaseline, hair tonic, No. 1, bot	. 27
Grocery Section.	
Corn, sugar, 1s tin	.14
Food, oat, 2-minute, pkg	.19
Peaches, sliced, 1s tin	.17
Peas, extra sifted, 1s tin	.19
Household coloring solution, P. C.:	
Burnt sugar brown, 4-oz. bot	.15
Lemon yellow, 4-oz. bot	. 15
Strawberry red, 4-oz. bot	.15
Orange, 4-oz. bot	.15
Chocolate brown, 4-oz. bot	.15
(Note-One cent allowed for return of	empty
bottle.)	
Soup, sea green turtle, clear, 1s tin	. 27
Soup, sea green turtle, thick, 1s tin	. 27
Vinegar, cider, P. C., pint bot	.17 urn of
empty bottle.)	dili OI
Hardware Section.	
Pipes, Bakelite socket, ea	4.05
Pipes, Bakelite, socket, ea	4.03
a speci mancine, occured en se se se se se se se	1,10

Pipes, Bakelite socket, ea	4.05
Pipes, Bakelite, socket, ea	4.75
Pipes, Bakelite socket, ea	3.70
Pipes, Bakelite socket, ea	5.05
Razors, Durham Duplex, set	4.05
Razors, safety, Gillette, Big Fellow's, set.	4.05
Rings, key, bead chain, ea	.06
Rugs, Crex, De Lux, 54" x 90", ea	8.80

### Cable Address of The Panama Canal.

The cable address of The Panama Canal, on e Isthmus, is "Pancanal, Panama;" in the the Isthmus, is "Pancanal, Panama;" United States, "Pancanal, Washington."

### Postal Address of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

### COMMISSARY NOTE.

### Books.

A small shipment of popular books to retail at the special price of 81 cents has just been received from New York and distributed to Cristobal, Gatun, Pedro Miguel, Ancon, and Balboa commissaries.

### Books received:

"The Actor Manager." by Leonard Merrick; "Cynthia," by Leonard Merrick; "The Position of Peggy Harper," by Leonard Merrick; "Going Some," by Rex Beach; "In the Shadow of Great Peril," by Horace Wade; "Moments with Mark Twain," by Albert Payne; "Secret of Sarek," by Maurice Leblanc.

### Juvenile books received:

"A Child's Garden of Verse," by Robert Louis Stevenson; "Little Folks in Busyland;" "Trail of Sandhill Stag;" "Monarch Big Bear."

# THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address The Panama Canal Record, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C. Entered as second-class matter, February 6, 1918, at the Post Office at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., May 26, 1920.

No. 41.

### The "Mount Vernon" Returns with Czecho-Slovak Soldiers.

The United States Army transport *Mount Vernon* arrived at Balboa on May 24, bound from Vladivostok, by way of San Francisco, for Hamburg, by way of Norfolk, carrying 3,220 Czecho-Slovak soldiers, 294 first class passengers, consisting of Czecho-Slovak and French officers and the families of officers and men, and 698 German prisoners of war. Some of these men were engaged in the world war from its beginning, and are nearing the completion of six years of service. The German prisoners were originally captured by the Russians, liberated after the formation of the Russian Republic, and later recaptured by the Czecho-Slovak forces, which had worked their way into Russia across the former Austrian frontier. Prisoners as well as the soldiers are being repatriated. The Mount Vernon left Vladivostok on April 13. She had passed through the Canal on October 28, 1919, outward bound from New York.

When the Mount Vernon arrived a case of fever, supposed to be typhus, had developed since leaving San Francisco. The case was landed and taken to Ancon Hospital, for laboratory diagnosis and treatment. The ship was kept in quarantine during her stay in Canal waters. Transit of the Canal was made on May 25, the ship drawing 32 feet of water, fore and aft. She is 685.4 feet long, and exceeded in length among the ships which have used the Canal by only the British battle cruiser Renown.

At Balboa the Mount Vernon took on 401 tons of coal, and was awaiting orders at Cristobal as to bunkers, at time of going to press. She consumes 375 tons a day, traveling at  $13\frac{1}{2}$  knots. Her full speed is rated between 23 and 24 knots.

# Steamboat-Inspection Service.—Investigation of Marine Accidents.

THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., May 22, 1920.

CIRCULAR No. 644-5:

Hereafter, in event of an accident or casualty affecting any floating property in Canal waters, which under existing regulations imposes on the Board of Local Inspectors an obligation to investigate, no change in the physical status of the floating property affected by the accident or casualty will be permitted prior to inspection by properly constituted authority, unless such change in status be imperative in order to preserve life or property.

It will be noted that the above requirement does not in any degree contravene the

provisions of paragraph 71 of Circular 644, inasmuch as that paragraph lays down procedure to be followed in the preparation of boilers for periodic inspection.

> JAY J. MORROW, Acting Governor.

# The "Sachem" Renamed the "Cuba."

The Pacific Mail Steamship Company advises that its steamship Sachem, operating on the Panama Line, and to Cuba, has been renamed the Cuba.

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight May 22, 1920.

	Panama Canal tonnage	Ne Ne	5,680 4,089 2,939 1,976 7,038 5,098 1,976 1,038 5,098 1,976 1,038 1,976 1,038 5,098 1,038 1,198 1,038 1,038 1,038 1,198 1,038 1,198 1,038 1,198 1,038 1,198 1,038 1,038 1,038	7,500 6,360 4,337 3,373 6,563 4,839 6,200 5,316 3,834 6,600 6,600	
	Panama Ca tonnage	00000	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	7,500 6,360 3,373 6,563 6,200 5,316 2,346 3,235 6,600	
		Tons	(e) 2, 25, 73, 11, 861, 11, 881, 11, 881, 2, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	7,500 3,373 3,373 6,200 6,600	
		Cargo	Coal. General General Coal. Coal. Coal. Timber. Coke. General General General General General General General Goal. Coal. Coal. Coal. Coal. Coal. Coal. Coal.	Crude oil	
		For—	Los Angeles. Guayaquil. San Francisco. David. Tocopilla. San Francisco. Antofagasta. Antofagasta. Calho. Punta Mah. Valparaiso. Yokolama. San Francisco. Mollendo. Valparaiso. Valparaiso. Valparaiso.	Pisagua. San Pedro. Cape Mala. Balboa. Yokohama. Mollendo.	
		From-	Guantanamo Baltimore. Baltimore. Chistohania. Chistohania. Chistohania. Chistohania. Tampico. Cristohal. Philadelphia. New Orfeans. New Orfeans. New Orfeans. New Orfeans. New Orfeans. New Orfeans. New Orfeans. New Orfeans. Norfolk. New Orf News Cristohal. Cristohal. Norfolk. Norfolk.	Tuxpan. Mobile. Cristobal. Cristobal. Galveston. New York.	
	Salt	water	13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0	53.0 25.6 53.0 18.6 48.0 25.8 45.0 26.0 65.0 26.0	
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THROUGH THE CANAL--PACIFIC TO ATLANTIC.

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(9) Yacht. (h) Destroyer. (i) Motor schooner. (j) Motor panga. (k) For orders. (l) Hats, hides, cocoa, coffee, ivory nuts, etc. (m) Short tons. (n) Displacement. PORT OF CRISTOBAL.

	For—	New York and Habana. Tampico. Port Limon. New Orleans and Bocas. Puerto Colombia. New York and Kingston. Gartagena. New York and Haiti. New York and Limou.	
*DEPARTURES.	Line.	United Fruit Co. Standard Oil Co. United Fruit Co. United Fruit Co. United Fruit Co. United Fruit Co. United Fruit Co. Panama Hailread Steamship Line. N. O. & S. A. S. Line	
	Vessel.	Pastores Chinampa Ulua Parismina Hatti Satta Marta Zacapa Zacapa Columbia	
	Date.	May 16. May 18. May 18. May 19. May 20. May 20. May 21.	PORT OF BALBOA.
		id Kingston. R.	PORT OF
	From	Port Limon. New Orleans. New York ar. New York ar. New York ar. Cartagena. New York ar. San Juan, P.	
*ARRIVALS.	Line. From-	United Fruit Co.         Port Limon.           United Fruit Co.         New Orleans.           United Fruit Co.         New Orleans.           United Fruit Co.         New Orleans.           United Fruit Co.         New York and Habana.           United Fruit Co.         Cartagena.           N. O. & S. A. S. Jine.         New Orleans.           United Fruit Co.         Cartagena.           N. O. & S. A. S. Line.         San Juan, P. R.	
*ARRIVALS.			

*Other than ships passing through the Canal.

May 17..... Lake Gebhart ..... | United States Shipping Board ..... | Portland.

*ARRIVALS.

Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

May 19..... | Lake Gebhart ...... | United States Shipping Board ..... | Callao.

*DEPARTURES.

Ships Traveling by the Panama Canal and by Alternate Routes.

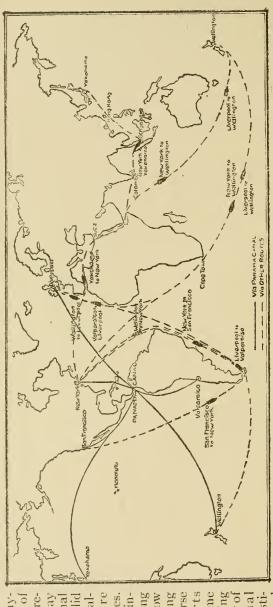
On the accompany-Courses by alternate routes are shown by broken lines. ing chart courses of ships between representativeportsbyway of the Panama Canal are shown in solid

would be at the time between two ports a similar ship making The black spots, indicating ships, along where a ship traveling over the longer course the dotted lines, show the voyage by way of the Panama Canal

would reach its destination. Equal and

constant speed is assumed, and consideration of delays for fuel, supplies, repairs, etc., are omitted though in general the advantage in this respect is with the Canalon account of the excellent facilities at its terminals for quick service of all classes. On the voyage from New York to Yokohama, for example, when a ship going by way of Panama (9,699 miles) had reached

with some 3,357 miles (farther than from Colon to San Francisco or from New York to London) yet to go. On a voyage from Yokohama to New York, when a ship using the Panama Canal had reached New York, one passing through the her destination, one sailing eastward by the European route (13,056 miles) would be about 450 miles short of Singapore, Mediterranean would be about 150 miles to the east of Gibraltar.



Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending May 22, 1920.

				Cargo	o—
Name of vessel.	Name of vessel. Line or charterer.		Departed.	Discharged	Laded.
Pastores. Ucayali Parismina Ulua Luropa Zacapa Huasco Cauca Santa Marta San Juan Haiti Orion Gen. W. C. Gorgas. Ansaldo SanGiorgio III	French Line	May 17. May 17. May 19. May 19. May 19. May 20.	May 21. May 19. May 18. May 21. May 20. May 20. May 19. May 19. May 21.	604 50 30 20 15 4 ½	Tons. 3 6 9 88 88 295

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending May 22, 1920.

				Cargo-	
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Guatemala Point Judith Cauca Cathwood. Ansaldo SanGiorgio III San Juan City of Almeda	Johnson Line Pacific Steam Navigation Co Pacific Steam Navigation Co Pacific Steam Navigation Co United States Shipping Board National Navigation Society Pacific Mail Steamship Co United States Shipping Board. United States Shipping Board.	May 16	May 18	190 1 9,800 3	Tons. 814 219

# Pascagoula Shipping through the Canal.

Pascagoula, Miss., began direct use of the Canal with the passage of the steamship G. A. Flagg, which arrived at Cristobal on May 18 on her way from Pascagoula, via Pensacola, to Callao with a cargo of 1,500,000 feet of ship timbers. The G. A. Flagg is an American ship of 3,299 gross tons, 332 feet in length by 42 feet beam, and is operated by the Hodge Ship Company.

### "Guatemala" Brings Crew of Foundered "Carawa."

The steamship Guatemala of the Pacific Steam Navigation Company, which arrived at the Canal on May 16 from south Pacific ports, brought to the Isthmus the crew of the British steamship Carawa, belonging to the Government of Australia, which had foundered on San Cristobal or Chatham Island, one of the Galapagos group, on March 24. The Carawa had passed through the Canal on March 15, on the way from Port Arthur, Tex., to Melbourne, carrying 4,246 tons of general cargo. Her foundering is reported to have been occasioned by her going in close to the island to take a disabled launch which she had picked up at sea, whose crew wanted to land on San Cristobal. The crew of the Carawa, stranded on the island, finally made their way to Guayaquil on a schooner, and there were put aboard the Guatemala for return to Great Britain.

Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

### Chilean Line Extending Service to New York.

The South American Steamship Company (the Chilean Line), which has operated a west coast service between Valparaiso and the Isthmus since 1890, and is now one of the principal transshipping lines passing through the Canal to Cristobal, announces the inauguration of a through service between Valparaiso and New York with the steamship *Renaico*. Both passengers and cargo will be carried, as on the present Valparaiso-Cristobal line.

The *Renaico* is due to reach the Isthmus from Valparaiso on June 2 on the initial voyage of the new service. She was recently purchased from the Toyo Kisen Kaisha, in whose service she was known as the *Nippon Maru*, and given a general overhauling at Valparaiso. The cabins, saloons, etc., were entirely refitted. The *Renaico* was built in 1898 at Sunderland, and is a steel twin-screw ship, of 5,919 gross and 2,959 net tons, 431 feet in length by 50 feet beam.

## Ex-German Steamers from Chilean Waters.

In connection with the passage of British and German tugs through the Canal, outward for Chile and returning with former German vessels in tow, reported in The Panama Canal Record of January 7 and from time to time in the weekly tabular statement, "Movements of Ocean Vessels," there are reprinted below portions of a comment of the last of the German steamers in Chile, originally appearing in The South Pacific Mail of Valparaiso, in its issue of April 1:

One by one the ex-German vessels are raising their anchors receiving the tow rope from the British Admiralty tugs, and obediently submitting to be towed to England. The Santa Theresa has now arrived at Colon on her way to Falmouth. On Monday last, the St. Ewe towed the Riol from Coloso where she had been loading nitrate for a British firm, on her way to Colon. The St. Botolph is busy towing the Abessinia from Junin on her way to Colon, calling at Callao to coal, and the St. Blasey has just sailed from Iquique with the Holstein as a captive. The whole of the West Coast is now one long line of British tugs towing the German vessels home. The next vessels to leave are the Rhodopis, from Iquique, the Gotha from Coloso, the Santa Ines from Taltal, the Karnak from Antofagasta, the Rameses from Iquique, the Hathor from Antofagasta, the Negada, Santa Rita and Gottingen from Valparaiso.

The Germans are now doing what they can to make good the damage they have done, by recovering by means of divers the valuable parts of machinery which they had thrown overboard. Very many of these can not now be recovered, either because they have already been brought up by other divers as a speculation and sold, or they lie in too deep water for divers to work, or, the moorings of the steamers having been changed, it is now impossible to find the original site where they were thrown overboard.

The coal strike is occasioning some difficulty as regards the coaling of the tugs, which, as can well be imagined, can not carry very much coal for the long slow journey with the towed vessels. But some of the tugs are preceding to the coaling ports and taking their own coal from the canchas by means of their crews.

The loss of the Schelde has also considerably impeded the work. The original intention, as laid down in the Peace Treaty, was that the German Government should mobilize all the towing craft in the ports of Germany, and send them out to the coast to effect the work of towing the steamers home. But as a punishment for the Scapa Flow affair, all the harbor material, including the tugs, of the German Empire had to be handed over to the Allies, and Germany was left with no powerful tugs for the work, and had to arrange with the British Admiralty to hire British tugs and send them out at the expense of the German Government. Of the tugs which were left to Germany she is sending out 4, of these the Einigkeit and Schelde are samples, neither of them fit for towing across the Atlantic.

In addition to the 4 German tugs, the British Admiralty has sent out 16 powerful tugs for the work. It was found that one of these, even, was not sufficiently powerful to tow the first of the ex-German steamers to be towed from the coast, the *Santa* 

Maria, and accordingly a second tug has been despatched to Kingston to assist the first. The tug St. Athan arrived at Panama with the Osiris in tow, last week, but was

delayed there by the Canal slide.

The fate of the sailing vessels was to have been decided at a meeting to be held in London about the middle of March; but the latest German revolution has postponed any definite decision. In the meantime permission has been given to the Helios, the smallest of the detained vessels, a little schooner of 1,200 tons, to continue on the voyage which she started in 1914 to Germany, as she is below the tonnage limit, above which all vessels which formerly belonged to German owners must be surrendered to the Allies, according to the Peace Treaty.

The item in The Panama Canal Record of January 7, referred to in the first paragraph, stated that prior to the passage of the tugs Einigkeit and Schelde on January 2, 1920, the only vessel to have passed through the Canal under the German flag was the launch Germania. on February 19, 1915. A reader has called attention to the inaccuracy of this statement, pointing out that the launch Emden, of 3 net tons, made the transit of the Canal, flying the German flag, on October 15, 1916, going from Cristobal to Balboa.

# The "Allianca" Not to Go to New Orleans.

The statement appearing in The Panama Canal Record of last week to the effect that the steamship Allianca would sail for Cartagena and Puerto Colombia to secure cargo for Cristobal, New Orleans, and New York, has been understood by some to mean that the Allianca would sail for New Orleans. She will not, as any cargo secured for New Orleans will be transshipped at Cristobal to some other carrier,

# Transportation of Passengers from New Orleans on Army Transports.

On some of the future voyages of Army transports from New Orleans to Cristobal, passengers will not be carried on account of shipments of explosives on the vessels, but passengers will continue to be carried regularly on the return voyages from Cristobal. The Chief of Office in Washington will inquire in advance of each sailing from New Orleans whether passengers can be assigned. He requests that employees making requests on the Washington Office for return transportation for themselves or families on a transport from New Orleans give ample notice and specify alternative line.

In this connection, it should be understood that the passenger accommodations allotted to The Panama Canal for the use of its employees are limited by the needs of the Army, and in most cases do

not exceed 25 persons per trip.

## Examinations for Apprentices.

The Superintendent of the Mechanical Division has issued the following circular notice, addressed to all concerned, under date of May 25, 1920:

On Friday and Saturday of this week, May 28 and 29, examinations will be held in the apprentice schoolroom, third floor, Mechanical Division office building, Balboa shops, for establishing a list of eligibles for appointment as apprentices.

This examination will be confined to boys of American parentage, between the ages of 16 and 20.

All those eligible and desiring to take the examination will report at the abovedesignated place promptly at 9 o'clock Friday morning, May 28. The examination will be both mental and physical, to determine the general fitness of applicants for the duties of an apprentice.

Date of examination for Panamanian boys will be announced later.

### Special Taboga Launch Service for Memorial Day Holiday.

In connection with the Memorial Day holiday, special launch service to Taboga will be provided on Sunday, May 30, with the departure of one launch from Dock 19, Balboa, at 7 a.m., and a second launch at 10 a.m. The Coco Solo, Pequeni, and Taboga are to be in service. The return trips will be according to the usual schedule, with extra trips as needed, and the service on Saturday, May 29, will be on regular schedule, a launch leaving Dock 19 at 6 p. m.

### Commuting to and from Takoga Contemplated.

With the idea of increasing the permanent patronage of the Aspinwall Hotel and offering some relief to the numerous employees with families who have no Canal quarters, the Supply Department is considering the establishment of a commuting service between Balboa and Taboga. Under present rates the wife of an employee can live at the Aspinwall for \$54 a month, for lodging and 3 meals a day. This is to be continued and a rate of \$50 per month, to cover transportation to Taboga in the evening, dinner, lodging, breakfast, and return transportation in the morning, is contemplated if enough employees desire to avail of it. Reasonably reduced rates will be arranged for children. Adequate daily launch service can be provided. The launch would leave Balboa after working hours in the afternoon; and, returning, leave Taboga in time to reach Balboa before the beginning of work. The trip is about an hour's run, each way. Employees interested are requested to express their opinions or offer suggestions to the Chief Quartermaster.

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Board of Civil Service Examiners, Balboa Heights (telephone 286):

Bacteriologist (male and female); \$2,500 a year; No. 302; June 22, 1920; form 1312; age, 26 years and over.

Electrical aid (fire control) (male and female); \$8.80 a day; No. 301; June 15, 1920; form 1312; age, 21 years and over.*

Electrician, \$1,400 a year plus bonus of \$20 a month; No. 231-amended, supplemental; form 1312; and electrician, 80 cents an hour plus bonus of \$20 a month; No. 231-amended, supplemental; form Expert clock repairman (male and female); \$1,600 a year; No. 317; June 22, 1920; form 304; age,

Expert clock reparting (male and remale); \$4,000 to \$5,000 a year; No. 300; June 22, 1920; form 1312; age, within reasonable age limits.*

Railway mail clerk (male and female); \$1,300 a year; No. 307; June 16, July 14, and August 11, 1920; form 304; age, 18 years but not 35 years.

Clerk, Panama Canal Service (male and female); \$106 to \$127 a month; July 17, 1920; form 1312;

age, 18 years but not 45 years.
Postal clerk, Panama Canal Service (male and female); \$104 to \$125 a month; July 10, 1920; form 1312; age, 18 years but not 45 years.
Stenographer and typewriter, Panama Canal Service (male and female); \$116 to \$137 a month; July 10, 1920; form 1312; age, 18 years but not 45 years.
Aid, Division of Plants, National Museum (male and female); \$1,200 a year; June 23, 1920; age,

Aid, Division of Plants, National Museum (male and female); \$1,200 a year; June 23, 1920; age, 20 years but not 40 years.

Engineer in forest products (male and female); \$2,160 to \$3,600 a year; June 22, 1920; assistant engineer in forest products (male and female); \$1,500 to \$2,100 a year; June 22, 1920; Immigrant inspector (male and female); \$1,380 a year with bonus of \$20 a month; June 23, 1920; form 1312 and form 2226, or, form 1141; age, 20 years but not 55 years.

Safety engineer (male and female); \$2,500 to \$3,000 a year; June 22, 1920; form 1312; age, within reasonable age limits.*

Specialist in natural gas conservation (male and female); \$2,160 to \$2,500 a year; June 22, 1920; form 2118; age, 21 years but not 40 years.*

form 2118; age, 21 years but not 40 years.

†Nonassembled. Applications will be received at any time until further notice.

^{*}Nonassembled. Date given for nonassembled examinations is the last day for filing applications and they must be in the hands of the Commission at Washington prior to the hour of closing business on that day.

# THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

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Volume XIII.

Balboa Heights, C. Z., June 2, 1920.

No. 42.

### CANAL WORK IN APRIL.

The following is the report of the Acting Governor to the Secretary of War, of Canal work in the month of April, 1920:

Balboa Heights, C. Z., May 26, 1920.

The Honorable, the Secretary of War, Washington, D. C.

Sir: I have the honor to submit the following report of The Panama Canal for the month of April, 1920:

CANAL TRAFFIC.

The number of ocean-going commercial ships passing through the Canal during the month was 220, exclusive of 10 United States Navy vessels, 2 United States Army vessels, 4 merchant ships with coal for the Navy, and 1 British tug with negative United States tonnage. A detailed classification of the month's traffic is included in this report.

The net tonnage, Panama Canal measurement, of the 220 commercial vessels aggregated 822,471, 3,109 tons greater than for the preceding month. Their registered gross tonnage was 1,050,481, and registered net tonnage, 674,565. The total cargo carried was 867,521 tons of 2,240 pounds, 26,995 tons less than for March. Of the total for this month, 1,964 tons were carried as deck cargo. The total number of vessels anderaft of all kinds through the Canal was 240, as compared with 246 last month.

The average length of the commercial vessels was 356 feet, average beam 48 feet, and average draft in salt water 22 feet; their average tonnage, Panama Canal measurement, was 3,739; United States net equivalent, 3,103; registered gross, 4,775; and registered net, 3,066. The average cargo carried by the laden ships was 3,943 tons

The United States coastwise trade for the month included 20 vessels with a total Panama Canal net tonnage of 80,210, carrying 108,074 tons of cargo. There were 7 vessels from the Atlantic to the Pacific Coast with a total Panama Canal net tonnage of 24,451, and cargo of 27,493 tons; and from the Pacific to the Atlantic Coast, 13 vessels with a total Panama Canal net tonnage of 55,779 and cargo of 80,581 tons.

### PRINCIPAL COMMODITIES.

Bulk shipments of whole cargoes of the different principal commodities included in the April traffic were:

FROM ATLANTIC TO PACIFIC.

Commodity.	No. of cargoes.	Tons.	Total tons.	From—	То—
Coal	3	9,086	. ,	Norfolk	Antofagasta.
Coal	2	16,881		Norfolk	Balboa.
Coal	1	7,712		Norfolk	Pearl Harbor.
Coal	1	7,203		Norfolk	Mejillones.
Coal	1	6,586		Norfolk	Manila.
Coal	1	6,004		Newport News	Mejillones.
Coal	1	2,802		Newport News	lquique.
Coal	1	1,904		Newport News	Tocopilla.
Coal	1	2,000	60,178	Philadelphia	Punta Arenas, C. R.
Fuel oil	2	17,400		Tampico	Toeopilla.
Fuel oil	1	9,000		Tampieo	Iquique.
Fuel oil	1	11,000		Tampico	Balboa.
Fuel oil	I	4,500		Tampico	
Fuel oil	I	7,250	49,150	Tuxpan	Pisagua.
Case oil	1	7,500		New York	Nagasaki.
Case oil	1	2,800		New York	
Case oil	1	6,644	16,944	New Orleans	Shanghai.
Gasoline	1			New York	Yokohama.
Phosphate rock	1			Boea Grande	Japan.
Pipe	1	l	3,000	Mobile	San Francisco.

### FROM PACIFIC TO ATLANTIC.

Commodity.	No. of cargoes.	Tons.	Total tons.	From-	То
Nitrate	2	17,384		Iquique	Savannah.
Nitrate	. 1	3,500		Pisagua	Savannah.
Nitrate	2	17,138		Iquique	Charleston.
Nitrate	1	8,700		Antofagasta	Charleston.
Nitrate	ī	8,500		Pisagua	Charleston.
Nitrate	ĺ	7,450		Mejillones	Wilmington.
Nitrate	l î	4,759		Caleta Buena	Wilmington.
Nitrate	î	3,000		Tocopilla.	Wilmington.
Nitrate	î	8,300	1	Caleta Buena	New York.
Nitrate	î	8.094		Taltal	
Nitrate	1	3,510		Tocopilla	Delaware River.
Nitrate	1	7,500			Norfolk.
Nitrate	1 1	3,150		Tocopilla	New Orleans.
Nitrate	1 1	8,104		Taltal	Baltimore.
Nitrate	4			Iquique	United Kingdom.
	+	6,072		Mejillones	United Kingdom.
Nitrate	ļ	6,000		Iquique	United Kingdom.
Nitrate	1	5,755		Caleta Colosa	United Kingdom.
Nitrate	1	5,700		Junin	United Kingdom.
Nitrate	I	2,736		Iquique	Nantes.
Nitrate	1	5,000	140,352	Iquique	Martinique.
Flour	2	10,933		San Francisco	New York.
Flour	3	15,751		Seattle	New York.
Flour	1	9,823	<del></del>	Tacoma	New York.
Flour	1	7,522		Portland	New York.
Flour	1	6.267	50,296	Astoria	New York.
Food products:	1		,		2000 2000
Cold storage	2	11,076		Wellington	London.
Cold storage	1	7,000		Auckland	London.
Cold storage	ī	6,000		Sydney	Hull, England.
Rice and canned goods	î	7,600		Hongkong.	Cuba.
Rice	î	5,362	37,040	Saigon	Cuba.
Crude oil	î	9,358	01,020	San Francisco	New York.
Crude oil	î	9,300	18,658	San Pedro	New York.
Lubricating oil	1	9,000		San redro	
V heat	1		8,834	San Francisco	Paulshoro, N. J.
Peanuts	1		7,336	San Francisco	Alexandria, Egypt.
um hor	1	0 051	5,283	Kobe.	Galveston.
umber	1	2,651		Punta Arenas, C. R	Havre.
umber	1	1,661		Portland	United Kingdom.
umber	1	866	5,178	Vancouver	London.
Manganese ore	1 }		3,450	Coquimbo	Philadelphia.

### LATIN-AMERICAN TRAFFIC.

Commercial vessels through the Canal en route to the west coast of Central and South America were classified as follows:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
United States British Norwegian Chilean Peruvian German Japanese French Swedish	3 2 2	154,766 55,511 20,732 9,080 7,708 980 6,079 5,440 4,932	103,366 33,680 12,551 5,505 3,604 268 3,850 3,892 3,973	119,296 42,777 14,951 8,078 4,630 272 4,440 4,639 4,013	Tons. 69,026 30,197 20,863 3,184 1,398 7,203
Total	66	265,248	170,689	203,096	135,203

Of the 66 vessels above, 21 were in ballast; 15 from United States ports, 4 from European ports, and 2 from St. Lucia. Of the 45 laden vessels, 17 were from United States ports, 9 with 24,619 tons of mixed cargo, and 8 with 28,999 tons of coal; 15 from Cristobal with 9,965 tons of general cargo; 6 from Mexican ports with 49,150 tons of fuel oil; and 7 from European ports with 22,470 tons of general cargo. Three of the laden vessels aggregated 4,113 tons, Panama Canal net measurement, with 1,997 tons of miscellaneous cargo, were bound to Central American ports; the remaining 63 vessels were destined to South American west coast ports.

The Latin-American traffic from the west coast of Central and South America for April is classified in the following tabulation:

Nationality.	No. of . ships.	Registered gross tonnage.	Registered net tonnage.	Panama Caual net tonnage.	Cargo.
United States British German Chilean Norwegian Pernvian French Portuguese Japanese Italian Dutch	4 4 3 3 1 1	118,066 70,174 24,923 10,965 18,350 12,325 5,681 5,605 5,005 5,368 3,689	81,134 41,403 15,240 6,813 11,683 6,031 3,600 3,528 2,637 3,200 2,291	93,276 52,728 21,457 9,655 14,388 7,483 4,081 4,501 3,608 3,457 3,660	Tons. 122,515 51,895 23,544 6,360 8,094 5,397 5,565 6,775 7,450 1,504 4,800
Total	69	280,151	177,460	218,294	243,899

Twelve of the above vessels were in ballast, 7 oil tankers, 4 British tugs, and 1 freight vessel. Thirty per cent of the total cargo consisted of nitrate. Three vessels with a total Panama Canal net tonnage of 4,955, carrying 3,685 tons of cargo, were from Central American ports; the remainder were from South American west coast ports.

The registry of the vessels engaged in this northbound traffic for the month, the kind and quantity of the cargo handled, and its destination are shown in the following

statement:

No. vessels	Registry.	Tons cargo.	Commodity.	Total commodity.	Destined to—
vessels  13 15 52 11 11 13 10 6 11 22 24 44 31 11 23 31 11 11 11 11 11 11 11 11 11 11 11 11	United States United States United States United States United States United States United States United States United States United States British British British British British British British British British Rorman Chilean Chilean Norwegian Norwegian Poruvian Prench Portuguese	85,441 5,000 24,619 1,354 11,859 31,932	Nitrate Nitrate General General Manganese ore Lumber Ballast Ballast General Nitrate Ballast Ballast Ballast Ballast Ballast Ballast Ballast Ballast Ballast Ballast Ballast Ballast General Nitrate General Nitrate General Office of the service of	90,441 25,973 3,450 2,651 43,791 8,104 23,544 3,624 2,736 8,094 5,397 5,565 7,775	Unitea States ports. Martinique. United States ports. Cristobal. Philadelphia. Havre, France. New York. Mexico. Cristobal. United Kingdom. United Kingdom. United Kingdom. United Kingdom. Mexico. Cristobal. United Kingdom. Cristobal. United Kingdom. Cristobal. United Kingdom. Cristobal. United Kingdom. Cristobal. United Kingdom. Cristobal. United Kingdom. Cristobal. Nantes, France. Delaware River. Mexico. Cristobal. Bordcaux, France. Lisbon, Portugal.
1	Italian				Genoa, Italy. Amsterdam.
69				243,899	

Sixty-eight of the vessels passing through the Canal this month were under control of the United States Shipping Board, combining a total Panama Canal net tonnage of 277,924 and carrying 345,934 tons of cargo. Thirty-seven were southbound with 138,485 tons of cargo; 31 were northbound with 207,449 tons of cargo.

### PRINCIPAL TRADE ROUTES.

Separate statements attached to this report show the ports of origin and destination for all cargo through the Canal this month (see pages 621, 622, 623, and 630); the tabulation below gives the distribution according to the principal trade routes:

	Total vessels.			Vessels in ballast.	
	Ves- sels.	Panama Canal net tonnage.	Cargo.	Ves- sels.	Panama Canal net tonnage.
Atlantic to Pacific. United States to west coast of South America. United States to Far East. Cristobal to west coast of South America. Europe to west coast of South America. United States coastwise. United States to Australia and New Zealand	20 13 10	114,493 90,519 20,803 34,390 24,431 31,746	52,698 144,417 8,668 21,770 27,493 34,296	15	69,098

	Total vessels.			Vessels in ballast.		
	Ves- sels.	Panama Canal net tonnage.	Cargo.	Ves- sels.	Panama Canal _j net tonnage.	
Mexico to west coast of South America.  Europe to Australia and New Zealand.  Europe to west coast of United States.  Cristobal to San Francisco.  Cristobal to west coast of Central America.  St. Lucia to Chile.  East coast of United States to British Columbia.  East coast of United States to British Columbia.  Europe to British Columbia.  Europe to west coast of Central America.  Mexico to west coast of Central America.  New Orleans to Republic of Panama.  Cuba to west coast of United States.	5 4 2 2 2 2 1 1 1 1	26,219 29,872 10,106 3,808 1,451 227 5,256 4,859 3,872 2,662 2,316 535 403	44,650 23,874 6,770 2,071 1,297 8,572 8,072 7,800 700 4,500 920		1,602	
TotalPacific to Atlantic.	110	407,968	398,568	23	79,250	
West coast of South America to United States. West coast of South America to United States. West coast of South America to Europe. United States coastwise. Australia and New Zealand to Europe. Far East to east coast of United States West coast of South America to Mexico Far East to Cuba. Australia and New Zealand to United States. West coast of United States to Europe. West coast of United States to Europe. West coast of United States to Mexico. West coast of United States to Egypt. West coast of United States to Egypt. West coast of United States to Dexico. West coast of United States to Europe. West coast of United States to Cuba. West coast of United States to Cuba. West coast of United States to Cuba. By the Coast of South America to Martinique. West coast of South America to Martinique. West coast of Central America to Cristobal. British Columbia to Europe.	19 18 13 8 7 6 3 2 2 2 1 1 1 1 1	82,547 28,735 67,982 55,779 63,744 30,973 32,411 12,701 12,266 5,694 5,458 5,103 2,316 2,024 1,947 1,602 700 692	129,054 21,200 84,960 80,581 50,772 44,228 19,704 12,531 7,161 7,336 375 2,651 5,000 1,500 866 1,034	6	32,411 5,458 2,310	
Total			1	15	55,825	

### (One British cruiser with a displacement tonnage of 4,675 is not included.)

### SERVICES TO CANAL SHIPPING.

Miscellaneous repairs were made at Balboa and Cristobal shops on 140 vessels during the month; 77 at Cristobal and 63 at Balboa; 16 vessels were dry-docked, 8 at Cristobal and 8 at Balboa. Bunker coal in the amount of 38,356 tons were supplied to 129 commercial vessels, 35,392 tons to 114 vessels at Cristobal, and 2,964 tons to 15 vessels at Balboa. Forty-three commercial vessels were furnished a total of 88,669 barrels of fuel oil; 23 with 43,259 barrels at Cristobal, and 20 with 45,410 barrels at Balboa. There were 320 vessels supplied with 11,656,377 gallons of water; 202 at Cristobal with 9,116,127 gallons, and 118 at Balboa with 2,540,250 gallons. Sales of commissary supplies to commercial ships other than those of the Panama Railroad Steamship Line totaled \$95,998.04, including \$4,570.47 for laundry service; these sales having been made to 175 vessels at Cristobal in the amount of \$63,650.80, and to 111 vessels at Balboa in the amount or \$32,347.24. Charges for tug service for vessels using the Canal and the terminal ports totaled \$27,593.85, of which \$13,232.50 was earned at Cristobal, and \$14,361.35 at Balboa.

### STATEMENT OF OPERATIONS.

Letails of the business transacted at the Canal terminals are included in the following tabulation:

Item.	Cristobal.	Balboa.	Total.
Commercial ships making transit of Canal Net tonnage of commercial ships, Panama Canal measurement. United States equivalent net tonnage of commercial ships. Registered gross tonnage of commercial ships. Registered net tonnage of commercial ships. Cargo through Canal in commercial ships, tons of 2,240 pounds Deck load cargo, included in above, Nationality of commercial ships through the Canal:	407,968 341,330	110 414,503 340,328 529,464 335,633 468,953 1,201	220 822,471 682,658 1,050,481 674,565 867,521 1,964
Rationarry of commercial sinps through the Calaa.  British. Chilean. Dutch. French. German. Italian. Japanese.	32 3 1 2	35 4 1 2 4 1	67 7 1 3 6 1

	Cristobal.	Balboa.	Total.
Nationality of commercial ships through the Canal—Continued. Norwegian	4	3	7
Peruvian Portuguese Swedish	1	3 1 1	1 2
United States	110	110	220
Panama Canal net tonnage of commercial ships through the Canal: British. Chilean.	118,299 8,078	139,108 9,655	257,407 17,733
Dutch French German	4,639 272	3,660 4,781 21,457	3,660 9,420 21,729
Italian Japanese Norwegian	20,125 14,951	3,457 13,846 14,388 7,483 4,501	3,457
Peruvian. Portuguese. Swedish	4,630	7,483 4,501 4,001	29,339 12,113 4,501 8,014
United States	232,961 407,968	188,166	421,127 822,471
United States, equivalent net tonnage of commercial ships through the Canal: British	95,595	112.367	207,962
Chilean	4,928	6,535 2,322 4,208 16,718	11,463 2,322 8,821
German Italian Japanese	259 17,645	3,053 11,562	16,977 3,053 29,207 24,738
Norwegian Peruvian Portuguese	13,107 2,297	11,631 4,549 4,419	24,738 6,846 4,419
Swedish. United States.	3,556 199,330	3,256 159,708	6,812 359,038
Total Registered gross tonnage of commercial ships through the Canal: British	341,330 146,444	340,328 180,492	681,658 326,936
Chilean. Dutch French	9,080	10,965 3,689 6,856	20,045 3,689 12,296
German Italian Japanese	980 26,905	24,923 5,368 18,662	25,903 5,368 45,567
Norwegian. Peruvian Portuguese.	20,732 7,708	18,350 12,325 5,605	39,082 20,033 5,605
Swedish. United States.	4,952 298,776	3,769 238,460	8,721 537,236
Total	521,017	529,464	1,050,481
British Chilean Dutch	92,028 5,505	110,716 6,813 2,291	202,744 12,318 2,291
French. German Italian	3,892 268	4,299 15,240 3,200	8,191 15,503 3,200
Japanese Norwegian Peruvian	17,980 12,551 3,604	10,923 11,583 6,031	28,903 24,134 9,635
Portuguese Swedish United States	3,973 199,131	3,528 2,853 158,156\	3,528 6,826 357,287
Total Cargo carried by ships according to nationality:	338,932	335,633	674,565
British. Chilean. Dutch	105,011 3,184	130,698 6,360 4,800	235,709 9,544 4,800
5	22	6,431 23,544	6,431 23,566
Japanese	31,223 20,863	1,504 21,688 8,094	1,504 52,911 28,957
Peruvian Portuguese. Swedish United States	1,398 3,332 233,535	5,397 6,775 5,500 248,162	6,795 6,775 8,832 481,697
	398,568	468,953	867,521
Total Tolls levied against commercial ships, by nationality:			

Item.	Cristobal.	Balboa.	Total.
Tolls levied against commercial ships, by nationality—Continued.	05 500 00	\$5,260.00	\$10.000.00
French. German	\$5,566.80 283.20	20,589.05	\$10,826.80 20,872.25
ftalian.  Japanese.	21,843.85 15,297.73	3,816.25 14,452.50	3,816.25 36,296.35
NorwegianPeruvian	15,297.73 2,871.25	10,742.78 5,686.25	26,040.51 8,557.50
Portuguese. Swedish	4,445.00	5,401.20	5,401.20 7,347.50
United States	226,573.21	188,693.42	415,266.63
TotalVessels passing through the Canal free of tolls:	\$399,716.09	\$405,855.41	\$805,571.50
U. S. Navy destroyers	2	1 2	3 2
U. S. Navy celliers. U. S. Navy cargo steamer.		$\begin{bmatrix} 1\\2 \end{bmatrix}$	1
U. S. Navy colliers. U. S. Navy tugs. U. S. Navy tugs. U. S. Navy tugs. U. S. Navy tugs. U. S. Army transport. U. S. Army subchaser. Merchant ships with coal for U. S. Navy. British tugs with negative U. S. equivalent tonnage.	2		2 2 1
U. S. Army transport. U. S. Army subchaser.		i	1 4
Merchant ships with coal for U. S. Navy	4	1	1
Total	9	8	17
Total	1		997
Total ocean-going ships passing through the Canal	119	118	237
Launches through Canal Net tonnage of above, Panama Canal measurement. Total vessels and creft passing through the Canal	119	40 121	40 240
Total vessels and craft passing through the Canal.  Cargo on which no tolls were charged.  Commercial ships through Canal without cargo but not in ballast.  Commercial ships through Canal in ballast.	37,981	748	38,729
Commercial ships through Canal in ballast.  Net tonnage of above, Panama Canal measurement.  Displacement tonnage.  Motor ships through the Canal.  Net tonnage of above, Panama Canal measurement.	84.390	15 55,721	39 140,111
Displacement tonnage		4,675	4,675
Net tonnage of above, Panama Canal measurement.	138	69	207
Sailing ships through the Canal.  Net tonnage of above, Panama Canal measurement.  Tolls levied on laden ships through the Canal.	0000 045 05	3,974 \$365,730.95	3,974 \$698,976.20
Tolls levied on Inden ships through the Canal. Tolls levied on ships in hallast. Tolls levied on displacement tonnage.		40,000.71	106,471.55 2,337.50
Tolls levied on displacement tonnage		2,337.50	30.00
		\$408,099.16	\$807,815.25
Total tolls levied. Total ships entering port including Canal transit. Total ships clearing port, including Canal transit.	. 278 285	242 242	520 527
		484	1,047
Total ships handled	. 820,529 832,185	714,296 757,528	1,534,825 1,589,713
		1,471,824	3,124,538
Total for vessels entering and clearing	1,295,484	1,471,824 1,117,738 1,161,772	3,124,538 2,413,222 2,474,842
		-	4,888,064
Total for vessels entering and clearing  Vessels entering port but not passing through the Canal.  Net tonnage of above.	130,775	10	150,086
Net tonnage of above.  Gross tonnage of above.	213,297	28,106	241,403
Vessels clearing port but not passing through the Canal	149 199	14,970	164,099 266,196
Net tonnage of above.  Gross tonnage of above.  Vessels passing through Canal, and handling passengers or cargo at port, entering.  Net tonnage of above.	41	50	91
entering	113,419	112,405	225,824 365,67
Gross tonnage of above	. 179,700	1	
Not toppege of above	105,624		225,710
Gross tonnage of above	877,886	924,271	360,563 1,802,15
Transit cargo clearedtons.	. 010,102	_	1,788,19
Total transit cargo handled tons.  Local cargo arriving tons.	100,000	1,842,276 49,447 1,201	3,590,354 154,98
Local cargo shipped	3,882		5,08
Total local cargo handled tons Cargo received for transshipment tons		50,648 242	160,069 36,29 35,32
	35,240	973,960	35,32 1,995,44
		919,293	1,828,60 65,63
Total cargo arriving.  Total cargo cleared.  Cargo received by Receiving and Forwarding Agency of P. R. R. tons.  Cargo dispatched by Receiving and Forwarding Agency of P. R. R. tons.	64,113 56,933 3,921	4,196	
a late Description and Forwarding Agency of P R R tons	3,921	102	
Cargo rehandled by Receiving and Forwarding Agency of P. R. R tons.  Total cargo handled by Receiving and Forwarding Agency of			

Item.	Cristobal.	Balboa.	Total.
Cargo stevedored, included in above tons.	58,405	634	59,039
Cargo stevedored, included in above	108	15	123
Coal supplied above vessels tons.  Panama Railroad vessels supplied with bunker coal.	34,802	2,964	37,766
Coal supplied above vessels tons. U. S. Army vessels supplied with coal.	590		590
Coal supplied above vessels tons.	130	10	140
Coal supplied above vessels	118	16	134
Total coal furnished above vessels tons.  Coal supplied Panama Railroad departments tons.	35,522 1,095	2,974	38,496
Coal supplied Army, excepting vessels tons. Coal supplied The Panama Canal tons.	134		134
Coal supplied The Panama Canal tons.  Coal supplied individuals and companies tons.	1,820 396	955	2,775
Total coal furnished from Panama Railroad depositstons  Coal received during Apriltons	38,967 45,980	3,989	42,956
Coal on hand, May 1, 1920tons.	74,841	3,039	77,880
Coal on hand, April 1, 1920tons	67,828	6,828	74,656
Coal furnished U. S. Navy, including vesselstons	959	455	1,414
Coal on hand, May 1, 1920tons	24,514 65,426	16,881 31,653	41,395 97,079
Coal on band April 1, 1920tons	41,871	15,227	57,098
Coal on band April 1, 1920 tons.  Commercial vessels, other than P. R. R., supplied with fuel oil from Panama Canal tanks.	22	19	41
Fuel oil sold to above vessels barrels. Fuel oil sold to Panama Railroad vessels barrels.	40,599	42,751	83,350
Fuel oil sold to Panama Railroad vessels	2,660 102	2,659 153	5,319 255
Fuel oil issued to H. S. Army barrels		8,494	8,494
Fuel oil issued to Canal departmentsbarrels	7,437	39,738 4,858	47,175 4,858
			-
Total fuel oil furnished from Panama Canal tanks barrels.  Fuel oil received during the month barrels.	50,798 107,170	98,653 75,892	149,451 183,062
Fuel oil on hand May 1, 1920barrels	68,087	13,244	81,331
Fuel oil on hand April 1, 1920. barrels. Other oil pumped for individuals and companies. barrels.	11,715 $248,119$	36,005 31,057	47,720 279,176
Diesel oil issued during the monthbarrels		185	185
Diesel oil on hand May 1, 1920 barrels  Vessels supplied with water	202	1,211	1,211
Vessels supplied with water Water sold to ships. gallons. Vessels on which miscellaneous repairs were made.	9,116,127	2,540,250	11,656,377
Vessels dry-docked.	69 8	55 8	124 16
Vessels dry-docked. Commercial vessels furnished commissary supplies.	175	111	286
P. R. R. vessels furnished commissary supplies. Other U. S. Government vessels furnished commissary supplies.	10 16	1 10	11 26
Total vessels furnished commissary supplies.	201	122	323
Commissary sales to commercial vessels:	\$2.659 43	\$845.25	\$3,504.68
Wholesale groceries. Wholesale cold storage.	\$2,659.43 11,794.76	5,695.81	17,490.57
Laundry.	41,676.72 3,949.75	22,823.94 620.72	64,500.66 4,570.47
Laundry. Miscellaneous.	3,570.14	2,361.52	5,931.66
TotalCommissary sales to Panama Railroad vessels:	\$63,650.80	\$32,347.24	\$95,998.04
Ice	199.60	14.40	214.00
Wholesale groceries Wholesale cold storage.	1,673.80	924.79	2,598.68
Laundry	7,464.27 1,420.21	995.06	8,459.33 1,420.21
Miscellaneous	379.63		379.63
TotalCommissary sales to other Government vessels:	\$11,137.60	\$1,934.25	\$13,071 85
1ce	171,12	99,06	270.18
Wholesale groceries. Wholesale cold storage.	2,253.34 6,595.46	395.04 1,671.74	2,648.38
Laundry	296.73	49.60	8,267.20 346.33
Miscellancous	546.09	15,71	561.80
Total	9,862.74	\$2,231.15	\$12,093.89
Total commissary sales to all vessels	\$84,651.14	\$36,512.64	\$121,163.78
Passengers arriving including transit passengers:			5,306
Passengers arriving, including transit passengers: First cabin	3,229	2,077	5 514
Passengers arriving, including transit passengers: First cabin. Other than first cabin.	3,229 2,974	2,540	5,514
Passengers arriving, including transit passengers: First cabin. Other than first cabin.  Total. Passengers departing, including transit passengers:	3,229 2,974 6,203	4,617	10,820
Passengers arriving, including transit passengers: First cabin. Other than first cabin.  Total. Passengers departing, including transit passengers: First cabin.	3,229 2,974 6,203 3,353	2,540	5,514 10,820 5,229
Passengers arriving, including transit passengers: First cabin. Other than first cabin.  Total. Passengers departing, including transit passengers:	3,229 2,974 6,203	2,540 4,617 1,876	10,820

Item.	Cristobal.	Balboa.	Total.
Passengers disembarking: First cabin Other than first cabin	1,422 1,029	321 74	1,743 1,103
TotalPassengers embarking:	2,451	395	2,846
First cabin Other than first cabin.	1,698 757	120 79	1,81 <b>8</b> 83 <b>6</b>
TotalServices to American seamen:	2,455	199	2,654
Seamen shipped. Seamen paid off Seamen deserted.	170 201 22	176 69 2	346 270 24
Seamen deceased. Seamen lodged, subsisted, and repatriated. Wages of American seamen:	1 75	1 28	103
Total amount earned. Deductions approved by Deputy Shipping Commissioners	\$28,188.42 10,311.05	\$9,890.54 3,870.62	\$38,078.96 14,181.67
Balance due seamen. Paid to seamen. Received on deposit for seamen. Services to American vessels:		\$6,019.92 3,851.80 *3,653.12	\$23,897.29 13,045.53 12,336.76
Crews shipped Crews paid off Shipping articles written	2		2 2 3
Marine notes of protest noted Bills of health issued Clearances issued	12 153	5 125 127	17 278 285

*Includes \$1,485 repatriation deposit and money left for safe-keeping.

### LOCK OPERATION.

Lockages of commercial vessels for April were as follows:

	Number of lockages.		Number of vessels.		essels.	
	North.	South.	Total.	North.	South.	Total
Gatun		98	194	111	114	225
Pedro Miguel	105 104	107	212	113	116 116	229 229

Total lockages, including Army and Navy vessels, those of the Panama Railroad and The Panama Canal, are included in the following statement of lockages for April:

	Gatun.	Pedro Miguel	Miraflores.
Commercial Noncommercial, Army and Navy. Noncommercial, Canal equipment	8	212 10 22	206 11 23
TotalVessels.	205	244	240
Commercial Noncommercial, Army and Navy Noncommercial, Canal equipment	18	229 19 49	229 26 48
Total	266	297	303

The total consumption of water for lockages for April was 1,478,380,000 cubic feet. This consumption by locks was as follows:

	Gatun.	Pedro Miguel.	Miraflores.
Lockage . Leakage . Maintenance .	20,000,000	Cubic feet. 714,600,000 17,710,000 62,740,000	Cubic feet. 748,110,000 15,000,000 2,610,000
Total	783,780,000	795,050,000	765,720,000

### METEOROLOGY.

The 4-months' dry season rainfall for 1920 is the lowest of record since the American occupation, being slightly lower than the 1912 dry season rainfall. During April the rainfall was below normal everywhere except at Pedro Miguel and was extremely marked in the Atlantic section and over most of the Gatun Lake drainage basin. Totals ranged from a minimum of 0.06 inch at Frijoles and Bohio to 5.08 inches at Pedro Miguel. The greatest daily precipitation recorded was 1.98 inches at Balboa Heights on the 17th. The estimated rainfall over the Gatun Lake watershed was

0.87 inch, compared with a 10-year mean of 4.76 inches; and 1.53 inches over the Chagres River basin above Alhajuela, compared with a 19-year mean of 4.60 inches. The Chagres River discharge at Alhajuela was 72 per cent below the 19-year April average, or 3.04 c. f. s., against a mean of 1,079 c. f. s., and furnished 72 per cent of the total Gatun Lake yield; the discharge this month being the lowest April discharge for the 19 years of record, the maximum April discharge for this period was 3,140

c. f. s. in 1910.

The Gatun Lake watershed total yield was the lowest April yield of record, being 80 per cent below the 10-year mean, or 422 c. f. s., compared with a 10-year mean of 2,133 c. f. s. The maximum April total yield, 6,263 c. f. s., and the maximum April net yield, 5,400 c. f. s., occurred in 1915; this month's total yield, 422 c. f. s., and net yield, -613 c. f. s., constitute a minimum record for the month. The Miraflores steam plant was utilized throughout the month in furnishing current to relieve consumption from Gatun Lake, serving to reduce the consumption at Gatun to 40 per cent of the usual draft; despite which there was a decrease in storage for the month of 5,009,000,000 cubic feet. The lake varied from a maximum elevation of 83.54 on the 1st to a minimum of 82.29 on the 30th.

Two slight seismic disturbances were recorded at Balboa Heights during April; the first on the 8th and the second on the 27th. Both disturbances were too slight to

be felt.

### ELECTRICAL DIVISION.

Gatun hydroelectric station.—No service interruptions at this station occurred during April. The Maraflores steam plant relieved the station of a load of from 4,000 KW to 4,250 KW. The gross output of the station for the month was 2,132,500 KWH on a computed water consumption of 1,742,828,500 cubic feet.

Miraflores steam plant—This station carried a load of 4,250 KW from the 1st of the month to about the 20th, when it was reduced to 4,000 KW. The gross output was

3,005,350 KWH. The consumption of oil amounted to 16,920 barrels.

Total power output—The total gross output of both stations was 5,137,850 KWH; the total power distributed to consumers was 4,507,733 KWH. The total loss of power through plant auxiliaries, transmission, and transformation was 630,117 KWH,

or 12.26 per cent of the gross output.

Transmission line—One interruption to transmission line service occurred on the 14th caused by a locomotive crane coming in contact with the line at Monte Lirio. Service was interrupted at different points on the line for intervals of from 1 to 7 minutes. The painting of the towers was 96 per cent completed at the end of the month.

Substations.—All substations were operated throughout the month without unusual

occurrences.

New construction work—Construction work performed for the Army is separately reported. That for The Panama Canal and Panama Railroad had the following status at the end of the month:

Substations:	completed.
Installation of new battery at Miraflores substation	*98
Installation of 4 K-5 switches at Miraflores substation	62
Installation of two 1,000-ampère, K-13 switches, Cristoral substation	70 tion 8
Installation of two complete feeder equipments, Balboa substation	80
*No work done.	
Northern District.	
Installation of electrical equipment, Pier 6, Cristobal	100

Marine work—Miscellaneous repairs and installations of various electrical equipment were made on 66 vessels during April; 32 at Cristobal and 34 at Balboa.

### SHOP, FOUNDRY, AND DRY DOCK WORK.

The steamship Cristobal which was turned over to the Mechanical Division on May 19, 1919, for general overhauling and refitting left the Balboa plant for the Atlantic side on the 13th. Work on her was continued at the Cristobal plant and at the docks while taking on cargo, mainly by a force from the Balboa shops aided by the men and facilities of the Cristobal shops. The vessel left the 1sthmus at the end of the month with a full cargo for New York, complete as to repairs except for a part of the trim in the social hall and smoking room, which, together with the upholsteries, draperies, and other fittings will be completed at New York. The repairs and alterations to the Cristobal constitute one of the most extensive jobs of this nature handled thus far by the Mechanical Division. The vessel had 4 new boilers installed, her fuel system changed from coal to oil burning; the main engines removed, rebuilt, and installed; the passenger-carrying capacity trebled with full stateroom accommoda-

tions; the dining saloon and smoking room rebuilt and enlarged; and various other lines of alterations incident to placing the vessel in first-class condition for the trade

in which she is to be engaged.

Repairs to the steamship Western Cross were completed at the Balboa plant and satisfactory trials of the vessel made. Extensive repairs were made on the steamship Lady Sybil, and a general overhaul given the S. V. Harkness, Cordelia, and William Henry Webb. The steamship Cajacet arrived at the plant with the air pump and low pressure piston wrecked; the bottom of the air pump barrel was completely pushed out. After considering the alternative of supplying a new air pump, the welding of the wrecked pump barrel was undertaken and a completely satisfactory job obtained. A new low pressure piston was made and the remaining damages repaired.

A new low pressure piston was made and the remaining damages repaired.

The steamship Olockson which was scuttled in the entrance to Balboa harbor on March 17 to extinguish the fire aboard her was raised by the Mechanical Division during the month and towed to the inner harbor where discharge of her cargo was begun. This work was also continued throughout the month on the steamship

Marne at Cristobal docks.

After a 2-year delay, due to the inability of the Alaskan Engineering Commission to obtain bottoms in which to transport the material, the steamship Anyox and a barge were secured and called at Balboa during the month taking aboard the remainder of flat cars and locomotives which the Mechanical Division had in readiness for delivery. The shipment consisted of 350 flat cars and 4 locomotives, and closes the

contract for this class of equipment.

The following items of repairs to vessels were among those handled at the Cristobal plant during April: The semiannual overhaul of the U. S. mine planter Graham was made and the hull repaired. All furnace crown bolts on 2 boilers of the steamship Allianca were reinstalled during her regular stay at Cristobal. Extensive repairs were made to the towing arrangement and chafing gear of the tugs St. Ewe and St. Botolph prior to their departure for England with German ships from Chile. General repairs were made to the boilers, engines, and auxiliaries of the steamship Baltonville. The cylinder of the main engine of the steamship Chile was bored, new pistons, rings, and rods installed and considerable deck repairs made. A new tail shaft was made and 3 plates renewed on the hull of the U. S. S. Eagle No. 31. This vessel was floated in dry dock with plates off and shaft out to permit changing of vessels in dry dock. In addition, the following vessels received miscellaneous repairs at Cristobal: U. S. S. Eagle No. 49, U. S. A. T. Northern Pacific, Abangarez, Abysinnian, Ancon, Balboa, Belleplaine, Botsford, Cajacet, Cape Fear, Caribbean, Cauca, C-44, Chepadora, City of Berkeley, Colon, Corning, Cristicld, Cristobal, Easterner, Edgecomb, Edisto, General Ernst, General Goethals, General Gorgas, Guatemala, Hoyeisan Maru, Huallaga, Imperial, Lake Charlotteville, Lake Fansdale, Lake Fibre, Laura C. Hall, Manavi, Mantaro, Mehanno, Metapan, Palena, Panama, Parismina, Pasadena, Perou, Point Judith, Puerto Rico, Salvador, San Jose, Steelvoyager, Stuyvesant, Tampa, Tillamook, Trident, Ucayali, Ulysses, Urubamba, Victorious, Waiwera, West Campgaw, Wonabee; schooners James Rolph and Canlabria; tugs Engineer, Porto Bello, Sanidad, and Tavernilla; barge Darien; crane boat La Valley; and launches Adair, Dixie. Rodman, and Wilhelm. Eight vessels were dry-docked, viz., U. S. S. Eagle No. 31, U. S. mine planter Graham; steamships C-44, Jamaica, Manavi, and Salvador; launch Wilhelm; and tug Sanidad.

In addition to those vessels previously mentioned the following were repaired at Balboa shops and dry dock: U. S. S. Eagle No. 49, Gen. Geo. W. Getty, submarine R-25; submarine chasers No. 284 and V-12, tug Sciola; steamships Annette Rolph, Anyox, Arcadia, Ashland County, Calaveras, Calico Rock, Cartago, Cauca, Cheron, City of Omaha, Coaba, Corinthic, Coverun, David, Dewey, Ethan Allen, Huasco, Jamaica, John Adams, Keketlicut, Kenkon Maru No. 12, Kronprinsessen Margareta, La Habra, Lake Flynus, Lompoc, Manham, Matinicock, Mulhua, Potosi, Sachem, Sahale, Saint Andrew, San Joaquin, Sencia, Water Hardcastle, West Cape, West Hesseltine, Westmoreland, Panama Railroad steamship General Ernst; cable ship Guardian; motor ships Ansaldo V and Chiriqui; barge Baroda; dredges Cascadas, Culebra, and No. 86; Panama Railroad barge No. 13; launch Vacuum; and scow No. 139. The 9 vessels dry-docked were: U. S. S. Gen. Geo. W. Getty; steamships Cordelia, Huasco, and S. V. Harkness; cable ship Guardian; dredges Cascadas and No. 86:

Panama Railroad barge No. 13; and scow No. 139.

The foundry output of the Mechanical Division in patterns and castings for the month, as compared with March, is shown as follows:

	April.		March.		
IronSteelBrass	12 1,151	76,801	34 50	3.157	94,371

The ordinary repair and maintenance work of the Mechanical Division for the month included among other items the following:

month included among other remounds	
Cars repaired	2,074
Locomotives and cranes renaired	130
Passenger coaches packed cleaned, oiled, and inspected	4,384
Freight cars repacked	1 560
Locomotives hostled	206
Cranes hostled	56
Locomotives ridden	73
Locomotives inspected	13
Crews instructed in handling locomotives	22
Crews instructed in on and ruel economy	9
Cranes, locomotive, inspected	18
Cranes, locomotive, inspected	

### BUILDING CONSTRUCTION.

The different items of construction by the Building Division during April are shown as follows with the status of completion at the end of the month as indicated. Construction work performed for the Army and Navy is separately reported:

Colon stables:	Per cent completed.
Six stables. Five wagon sheds. One latrine.	100
One latrine Feed room and quarters Deposit pits.	†70
West half— Six stables	5
Five wagon sheds. One feed room. One shop building.	
Silver townsite, Mount Hope:	
Commissary. Two houses, married quárters. Four houses, married quarters.	60
Four houses, married quarters	50
Eight houses, married quarters Cristobal incincrator Combination shop and storehouse, Cristobal	85 30
Royal Mail Steam Packet Company's office, Cristobal.  Moving 3 type-7 houses from Las Cascadas to New Cristobal. Oil tank (55,000 barrels capacity). Cristobal.	, 50
Shed between roadway and cattle pens, abattoir	99
Alterations, Cristobal clubhouse Ten-stall addition to garage, New Cristobal Demolition of old watehouse, Cristobal commissary	5
National Catholic War Council building, Balboa	17
Oil tank (55,000 barrels capacity), Balboa.  Converting different wards, Ancon Hospital, into family quarters	100
Alterations, Balboa clubhouse	85
Railroad station, Summit. Alterations, Ancon restaurant. Demolition of old French pier.	70
Moving 3 type-7 houses from Las Cascadas to Pedro Miguel	40

(*) Completed except plastering.

(†) No work done.

(‡)Foundations begun.

### DREDGING DIVISION.

Cucaracha slide continued to be more or less active throughout the month. Two dredges working constantly removed 297,700 cubic yards of earth and rock from the slide area, leaving at the end of the month still 235,000 cubic yards within the Canal slopes between stations 1805 and 1814. A channel with a minimum depth of 32 feet over an average width of 155 feet was available daily for shipping, except in two or three instances when the width was about 120 feet. With slight interference to Canal traffic a reliable channel was maintained. Pipe line suction dredge No. 84 was moved from Balboa to the south side of the slide area and put to work on the 28th. At the end of the month the dredges had removed a total of 599,600 cubic yards of earth and rock since the slide occurring February 22. Graders No. 1 and No. 3, working one and two shifts, respectively, were engaged all the month in sluicing at Cucaracha slide; it being estimated that about 40,000 cubic yards of earth and rock were sluiced from the slide during April. East Culebra and barge repair slides showed no movement during the month.

The total excavation by dredges during April was 519,483 cubic yards, as follows:

Cubiosonala	Classifi	ied as—	Character	Q			
Cubic yards.	Earth.	Rock.	of work.	Station	18.		Equipment
(a) 158,600 (a) 88,209 (a) 50,900	79,300 35,300 20,400	79,300 52,900 30,500	Maintenance Maintenance Maintenance	Cucaracha 1805-00 to 1814-00 E. an 1805-00 to 1814-00 E. an 1805-00 to 1814-00 E. an Pacific En	d Wd d Wd d W		Paraiso. Gamboa. Cascadas.
(b) 15,000 (b) 8,000 (b) 90,000	15,000 8,000 90,000		Maintenance Maintenance Maintenance	Opposite dry dock slip 2102-00 to 2105-00 W 2137-50 to 2157-90 E Miraflores	No. 84. No. 83. No. 83.		
(b) 7,000 (c) 29,000 (c) 2,000	7,000 29,000 2,000		Maintenance Maintenance Construction	2102-00 to 2105-00 W Dry dock slip in front of d Dry dock slip in front of d Inner Harbor).	dock 7 (P-13	4)ge Balboa	No. 83. No. 84. No. 84.
(c) 5,000 (c) 44,000	5,000 44,000		Construction	Balboa inner harbor Balboa inner harbor Cucaracha	(7) - 1		No. 84. No. 84.
(a) 200	200 Sand and	 	Maintenance	1805-00 to 1814-00	Slide.		No. 84.
(d) 21,583	gravel 21,583		Aux. construction	Chagres River gravel hed	s		Marmot.
519,483	356,783	162,700					
(a) Ga	aillard Cu	t. (	b) Pacific entrance.	(c) Balboa inner harbo	or. (d)	Chagres R	iver.
The ma	terial e	xcavate	ed was dumped	as follows:			
			-			C	ubic yards.
Canal north	of Gold	Hill		• • • • • • • • • • • • • • • • • • • •			294,350 3,350
Canai south	i oi Cuca	racha sh	de				200 55,000
Arsenal hii	at Coroz	al					90,000
Gamboa gr	ump	· · · · · · · · · · · · · · · · · · ·					55,000 21,583
						-	
			tion remained to	be done on May 1:			519,483
			Location.		Earth.	Rock.	Total.
0.00					Cu. yds.	Cu. yds.	Cu. yds.
Gaillard Cut. Pacific entrai	nce				50,500	25,000 86,900	25,000 137,400
Total Ca	nal prism				50,500	111,900	162,400
Daipoa Inner	narbor			• • • • • • • • • • • • • • • • • • • •	109,850	2,100 13,400	2,100 123,250
Total, or	ean to occ	ean			160,350	127,400	287,750
			MUNICIPAL EN	GINEERING DIVISION	r		
			ne following ite s on May 1 as s	ms of construction		nder wa	y during
			Nort	hern District.			Per cent
				ew silver townsite, Mou			completed.
Water	lines	de	• • • • • • • • • • • • • • • • • • • •				99 99½
Sewers	s, sanitar	у					95
Sewers	lks	• • • • • • • •	• • • • • • • • • • • • • • • • • •				(*)
Municipal	work bet	tween 7th	and 9th and "G"	and "K" streets, Color	1:		85
Gradin	 ng		· · · · · · · · · · · · · · · · · · ·			 	
Water	lines						99
Sanita	ry sewers	s					95
Storm	sewers		bal townsite:				50
Gradit	ng						
Roads	lines						30
Sanita	ry sewer	S					
Municipal Gradit	work for	west hal	t, Colon stables:	· · · · · · · · · · · · · · · · · · ·			100
Roads						!	95
Water	lines	· · · · · · · · · · · · · · · · · · ·					100
Road to no	w incine	rator, M	ount Hope				35
Two tennis	courts,	Gatun					95
			(*)	Not started.			

No work was done during the month on the ten 12-family silver quarters at Mount Hope:

Southern District.

Storm sewer, Javillo fill	*99
Sewers, Northern Avenue to beach	*99
Box sewer, Panama Railroad vards	35 95
Road from lumber shed to Diablo Hill	75
Demolition of Calidonia bridge	75
Concreting Panama Tramway line, Calidonia crossing	*60
Municipal work for 3 type-18 houses, Balboa	100
Industrial track between buildings 8 and 14, Balboa shops	*90
Sewer and water lines for Central & South American Telegraph Company, Balboa	,,,

(*) No work done.

Construction work performed for the Army and Navy is separately reported.

The total output of all pumping stations for the month was \$45,325,250 gallons; and that of the 3 filtration plants, 532,439,000 gallons. Panama City was furnished with 87,517,000 gallons, and Colon with 51,041,150 gallons. Sales of water to 320 vessels at Cristobal and Balboa totaled 11,656,377 gallons.

Unit No. 1, 6 the Cavillan Island Institute to wave closed deven for coopies throughout

Unit No. 1 of the Gavilan Island incinerator was closed down for repairs throughout the month. There were 2,586 tons of garbage and 136 dead animals consumed at this

plant during April:

# WORKING FORCE.

# (Effective April 21, 1920.)

Department or Division.	Gold.	Silver.	Total.
Operation and Maintenance: Office Building Division. Electrical Division. Municipal Engineering Division. Lock Operation. Dredging Division. Mechanical Division. Marine Division. Fortifications.	37 450 261 109 168 173 1,116 166 53	44 1,660 325 1,498 461 1,062 1,952 429 235	81 2,110 586 1,607 629 1,235 3,068 595 288
Total Supply Department: Subsistence Quartermaster Commissary Cattle Industry Hotel Washington	2,533 40 218 329 29 10	7,666 413 1,903 1,605 996 106	10,199 453 2,121 1,934 1,025 116
Total	254	5,023 10 899 239	5,649 270 1,153 803
Total. Panama Railroad: Superintendent. Transportation. Receiving and Forwarding Agent. Coaling stations.	68 151 116	561 181 2,163 1,286	629 332 2,279 1,397
TotalGrand total.	446	4,191 18,028	4,637

The total gold force on April 21 was 108 more than the 4,575 on March 24, and the silver force was 368 more than the 17,660 working on that date. As compared with the gold force for the corresponding period of last year, reported as of April 23, 1919, the present force is an increase of 1,202 over the 3,481 employed on that date, and the silver force 1,073 more than the 16,955 on the payrolls of the same date. The increase of the gold force over that of the corresponding period of last year is due to considerably increased forces in the Building and Mechanical Divisions on account of Army building construction work and the salvaging work in progress on the steamships Marne and Olockson, also to the fact that a considerable number of silver employees were replaced in different divisions by gold employees after the strike of the former in February. The increased silver force is due largely to additions to forces of the Building and Dredging Divisions, the Supply Department, and dock employees of the coaling stations and Receiving and Forwarding Agency of the Panama Railroad.

### OCCUPATION OF QUARTERS.

The statement following shows the occupants by numbers, as classified, of Panama Canal and Panama Railroad quarters on April 30:

	Men.	Women.	Children.	Total.
Americans Europeans West Indians	168	2,244 27 1,641	2,470 43 3,167	8,558 238 9,601
Total	8,805	3,912	5,680	18,397

### PUBLIC HEALTH.

There were but 22 cases of malaria, including employees and nonemployees, reported during April, 7 of which were nonresident, with no deaths. Influenza cases totaled 314 as compared with 801 in March. There were 24 deaths from influenza and 28 from pneumonia. Forty-four cases of chickenpox were reported as compared with 63 cases the preceding month. Two cases of typhoid fever were reported, 1 nonresident, with no deaths.

### RECEIPTS AND SALES OF MATERIAL AND SUPPLIES.

The total value of material ordered on United States requisitions and received during April was \$754,085.60; March receipts were \$546,820.66. Of the April receipts, \$671,065.53 was chargeable to Operation and Maintenance; \$76,253.80 to Construction and Equipment; and \$6,766.27 to miscellaneous departments. Total cash sales on the Isthmus from storehouses and obsolete store amounted to \$212,483.60, of which \$209,888.42 was for stock material, \$1,186.50 for scrap, and \$1,408,600.

.68 for obsolete and second-hand material.

The total sales of material from storehouses to steamships for April was \$186,239.39, of which \$30,265.29 was for stock material, and \$155,974.10 for fuel oil. Sales of commissary supplies to all purchasers for April aggregated \$1,096,016.16 made up as follows: To steamships other than United States Government vessels and those of the Panama Railroad Steamship Line, \$96,827.39; to The Panama Canal, \$143,946.03; to the United States Government, including the Army and Navy, \$163,670.19; to individuals and companies, mainly through charge accounts in the retail commissaries, \$24,950.58; to the Panama Railroad, including its steamships and the Hotel Washington, \$44,575.19; and to individuals purchasing coupons, \$622,046.78.

### FINANCIAL RECEIPTS AND EXPENDITURES.

The cash balance in Canal appropriations on April 30, exclusive of Fortifications, was \$13,131,199.17; the balance in Fortifications was \$5,545,344.66. Payments from appropriations made by the Disbursing Clerk, Washington, amounted to \$697,636.10, and by the Paymaster on the Isthmus to \$1,635,293.88. Purchases of commissary

books from the Panama Railroad Company amounted to \$327,191.84.

Collections of tolls on the Isthmus totaled \$807,815.25. Deposits of \$196,779.31 were made with the Assistant Treasurer of the United States to be applied in payment of tolls and other charges against vessels using the Canal. The total Panama Canal collections on the Isthmus were \$2,834,328; and collections by the Disbursing Clerk, Washington, \$66,093.54. Receipts from Canal Zone and miscellaneous funds were \$196,839.43; disbursements from the same source were \$258,421.46. April payrolls on the Isthmus totaled \$1,357,461.56, as compared with \$1,336,016.07 for March, an increase of \$21,445.49 for this month.

### Respectfully,

JAY J. MORROW,

Acting Governor.

### Notice to Steamship Lines.

THE PANAMA CANAL, BALBOA HEIGHTS, May 26, 1920.

1. Due to fuel shortage, on and after June 1, 1920, The Panama Canal will engage to supply coal and oil to meet the needs of those ships only which transit the Canal or form connecting links with Canal ports.

2. On and after the above date, and until further notice, Canal ports therefore can not be considered bunkering ports for vessels calling at these ports merely for fuel

JAY J. MORROW,

Acting Governor.

Distribution Among Ports of Cargo Passing Through the Canal From Pacific to Atlantic, April, 1920.

Charleston, S. C.	8,700	17,138				34,338
Boston, Mass.					4,866	4,866
Baltimore, Md.	6,263	8 890	3,150			19,035
United Kingdom.			5,300			6,961
Stockholm, Sweden.			5,500			5,500
Southampton England.					5,632	5,632
Nantes, France.		2,736	3			2,736
Lisbon, Portugal.	6,775					6,775
Liverpool, England.	5,245		9,925		10,000	31,176
London, England.		7,456		998	20,127	35,462
Науте, Ггалсе.		2,651				2,651
Genoa, Italy.			1,504			1,504
Bordeaux, France.			cac 'c			5,565
Amsterdam, Netherlands.	4,800					4,800
Alexandria, Egypt.			7,336			7,336
From—	Antofagasta, Chile Buenaventura, Colombia. Caleta Buena, Chile Caleta Buena, Chile Caleta, Peru Colatea Calesa, Chile Colatea, Peru Colatea, Chile Coramino, Chile Coramino, Chile	Guayamii Pouador Iquiyue, Chile Jumii Peru Mgillones, Chile Psagua, Chile	Talezhuano, Chile Talezhuano, Chile Totoplila, Chile Turaseo, Colombia Valparaiso, Chile Astoria, Orez Portland, Orez San Pranciso, Cal.	Seattle, Wash. Vancour, Wash. Vancouver, B. C. Hongkong, China. Salgon, China. Kobe, Japan. Kobe, Japan.	Auckland, New Zealand Wellington, New Zealand Port Brite, Australia Sydney, Australia Champerico, Guatemala.	Totals

Distribution Among Ports of Cargo Passing Through the Canal From Pacific to Atlantic, April, 1920.—Continued.

.elatoT	21,738 10,555 10,555 25,397 4,595 4,595 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,747 11,7	400,000
Santiago, Cuba.	7,6007	00011
Martinique.	77 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17 000 17	9,000
Habana, Cuba.	6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	
Matanzas, Mexico.	37.6	010
Cristobal, C. Z.	1,410 8,300 5,397 4,817 1,717 6,772 1,500 1,600 1,600 1,034	98,600
Wilmington, Del.	3,000	19,209
Savannah, Ga.	8,600	12,100
Philadelphia, Pa.		3,450
Paulsboro, N. J.		8,834
Norfolk, seV	3,550	3,510
Меw York, И. Y.	3,203 4,089 4,235 6,267 7,522 9,300 15,751 7,000 7,000 7,665	120,835
Newport News, Va.	90 8	6,000
New Orleans, La.	66.125.66	6,256
Galveston, Tex.		5,283
From—	Autofagasta, Chile Buenaventura, Colombia Caleta Buena, Chile Caleta Buena, Chile Caleta Calosa, Chile Caleta Calosa, Chile Coquimbo, Chile Corone, Chile Corone, Chile Guayaquul, Eeuador Iquique, Chile Guayaquul, Eeuador Iquime, Chile Putta Arenas, Costa Rica Fisguan, Chile Putta Arenas, Costa Rica Talethamor, Chile Tocopilla, Chile Tocopilla, Chile Thanaco, Colombia Valparaiso, Chile Astria, Oreg San Ferta, Cal San Petro, Cal San Petro, Cal San Petro, Cal San Petro, Cal San Petro, Cal San Petro, Cal San Petro, Cal San Petro, Cal San Petro, Cal San Petro, Cal San Petro, Cal San Petro, Cal San Petro, Cal San Chila Valencia, New Zealand, Vancouver, B. C Hongkon, Chila Valington, New Zealand Wellington, New Zealand Wellington, New Zealand Wellington, New Zealand Sydney Australia Champerico, Guatemala	Totals

Distribution Among Ports of Cargo Passing Through the Canal From Atlantic to Pacific, April, 1920.

Brisbane, Australia.		12,500	12,500	.elatoT	3,333 7,800 22 36,923 11,837 19,112 3,820 7,396 8,500 10,564
Adelaide, Australia.	55 40 40 40 40 40 40 40 40 40 40 40 40 40		3,484	Rabo de Puerco, R. de P.	920
Auckland, New Zealand.		3,400	22,876	Corinto, Nicaragua.	
Valparaiso, Chile.	2,849		10,709	Champerico, Guatemala.	002
Valdivia, Clule.		2,685	10,262	Balboa,	
Tumaco, Colombia.		049	646	Yokobama, Japan.	7,800
Tocopilla, Chile,		3,365	22,669	Vladivostok, Siberia.	
Salaverry, Peru.		0,173	5,173	Shanghai, Straits Settlements.	6,644
PuntaArenas, Costa Rica.		2,000	2,000	,ixsasski, Japan.	7,500
Pisagua, Chile.		7,250	7,250	Manila, I.9	8,072
Paita, Peru.		3,15%	5,158	Kobe, Japan.	5,500
Mejillonea, Chile.		6.004	13,207	Hakodate, Japan.	3,820
Iquique, Chile,	55	2,802	11,824	Vancouver,	7,800
Cusysquil,		2,243	2,243	Seattle Wash,	6,770
Corral, Chile.	3,332		3,332	San Francisco Cal.	3,000
Coronel, Chile,	3,379		3,379	New Zealand.	8,310
Callao, Peru.	4,878	1,398	6,276	Melbourne, Australia.	2,000
Buenkven- tura, Col.		361	361	Lyttleton, New Zealand.	0,000
Antofagaata, Chile.		10,751	10,751		
From—			Totals	From-	Christiania, Norway Glasgow, Scotland Hamburg, Germany London, England Liverpool, England Baltimore, Md Boes Grande, Fa Boes Grande, Fa Mobile, Ala New Orleans La New York, N. Y

(Continued on page 630, column 1.)

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight May 29, 1920.

	Canal	Net	1,023 2,790 6,423	4,886	1,680		3,066	4,721 6,201	3,975	206	105 69	5,597	4,775	2,163	6,540	2,126	3.601
	Panama Cana tonnage	Gross	1,582 4,267 8,518	6,576	2,653	3,524	4,508	6,524 8,349	5,694	1,273	130	7,981	6,589	3,173	8,683	3,036	4.825
	<u> </u>	Tons	494 472 1,500	6,624	3,469	7,5001	167	7,482 8,900		180			2,000	1,884	0,300		650
		Cargo	General General Crude oil1	General		lke etc.	:	Coal		General	General		General				Sulphur
		For—	Guayaquil Valparaiso Balboa	Kobe.		Auckland		Pearl Harbor	Valparaiso	Acajutla	Auckland Buenaventura.	Auckland	Yokohama	San Francisco.	San Francisco.	Valparaiso	Freemantle
		From—	Cristobal Cristobal Tampico	New York	Newport News	Southampton	Cristobal	Newport News New York	New York	Cristobal	Madeira	Avonmouth	New Orleans	Cristobal	Tampico	New 1 ork	Sabine
	Salt	water draft	16.3 17.6 29.0	24.6	25.0	25.0 20.6	22.6	25.25	21.0	13.6	16.0 9.6	28.6	25.0	17.8	28.0	20.8	25.0
CIFIC.		Beam	35.2 43.0 60.0	53.6	43.7	60.0	17	54.2	51.6	33.5	25.6	56.0	54.0	38.2	58.0	28.0 40.6	49.0
C TO P.		Length Beam	246.0 359.3 465.0	402.6	253.4	460.0	379 7	4400.7	360.0	215.7	125.6 81.0	454.0	410.0 390.0	326.0	439.0	290.0	385.0
THROUGH THE CANAL-ATLANTIC TO PACIFIC.		Line	Pacific Steam Navigation Co. Pacific Steam Navigation Co. Standard Oil Co. United States Navv	United States Shipping Board.	Wessel Duval & Co.	Shaw Saville & Albion Co.	South American Line	United States Shipping Board United States Army	W. R. Grace & Co.	Pacific Steam Navigation Co	Sanford & Co. Pacific Metals Corporation	New Zealand Shipping Co	United States Shipping Board	Pacific Mail Steamship Co	Standard Oil Co.	Pacific American Fisheries	Australind Steamship Co
		Nationality	British British American	American	American	British	,	American	-1, -	deel	British	_	American	4 454	-		21.18 29 22.25 British Australin
	Cleared for sea	moH	16.55	17.20	90.9	19.00	19.2	22.23 22.20	19.26		12.30	т.	16.45		22.0		22, 25
		Day	55 23 55 23 34	30 23	57 24 24 24 24 24	01 24	35 24	15 25	00 26	20 25	20, 26 14, 27	16 26	33 27	58 29	45 29	45, 29	18 29
	Completed transit	moH	5.5.5.6	16.	19.	∞ ∞	2	250	96	12	4.4	14.	2 9	16.	618	28	
		Day	6.10 23 6.10 23 6.20 23 6.20 23								06 20 20 20						57 29
	Entered Canal	Day	22223														
		TooH	19.15 18.15 16.52 10.52														
	Arrived at port	Day	19 19 19 19 22 16 16 16 16 16 16 16 16 16 16 16 16 16													28 15 28 22	
		Ship	Cauca	: :,	: .				:		Jas. Cosgrove(d)		ns	Newport.	D. G. Scofield	Ebro	Atholl 28

(a) Towing barge 277. (b) Transport. (c) Collier. (d) Tug. (c) Power schooner.

THROUGH THE CANAL-PACIFIC TO ATLANTIC.

2,638 2,383 1,517	2,500 3,647 2,307 9,400 7,473 5,937 1,410 2,637 1,708
2,383	3,647 7,473 2,637
2,638	2,500 9,400 1,410
Nitrate	General Nitrate Lumber
Wilmington Cristobal	New York Savannah Nuevitas
Mejillones	Auckland Iquique
20.0	18.0 28.0 22.0
43.5	46.6 54.2 41.6
253.5 200.0	331.0 409.6 266.9
3.35 23 16 10 23 19.35 American United States Shipping Board 253.5 43.5 20.0 Mejillones Wilmington Nitrate 3.38 23 14.30 American United States Navy 200.0 25.0 High seas Cristobal	Canadian Government
American	.52 23 16.15 24 13.12 British .00 23 20.30 24 5.35 American .18 23 19.37 24 11.40 American
3 19.8	11.4
3.10 2	3.15 2 3.30 2 3.37 2
23 16 23 14	23 16 23 20 23 15
6.35	8.52 10.00 11.18
223	2233
12.3(	15.3 1.3 22.00
222	. 172
Lake Maurepas Eagle No. 4 (f)	Canadian Raider Edgecombe

(f) Eagle boat.

4,740 1,766 9,506	2,618 2,163 5,891 5,923	4,150 5,308 2,475	5,627 622 2,646 2,206 6,653	7,000 5,739 4,364 11,04915,93110,486 7,139 6,753 4,798 7,409 6,139 4,698
6,525 2,729 2,792	7,470 3,173 8,313 4,514 8,518	5,842 8,262 3,634	7,440 1,187 4,100 3,429 9,403	5,739 15,931 6,753 6,139
8,057 3,861 5,5411	1,900 7,470 5 1,900 3,173 2 5,555 8,313 5 1,338 4,514 2 8,518 5	4,130 4,100 1,231	9,100 754 1,918 2,644 9,856	7,000 11,049 7,139 7,409
Flour Nitrate. General	General General General Ballast	General Wool and general General	Redwood, flour General General Rice	General General Rice Nitrato of soda
	Cristobal London Liverpool Tampico		Amsterdam Cristobal Habana	New York. Liverpool. Cuba.
San Francisco Iquique Wellington	Aduque San Francisco. Sydney. Callao. Balboa	Valparaiso Auckland Taleahuano	Seattle Buenaventura Coronel San Francisco. Caleta Colosa.	Hongkong Talcahuano Saigon, China Antofagasta
25.6 24.0 27.6	24.6 19.0 21.0 21.0	20.0	28.6 13.3 19.0 21.0 27.6	24 6 31.0 25.0 25.0
53.0 43.6 63.3	25.2 25.3 25.3 20.0 20.0	51.6 58.4 41.2	55.2 34.0 43.1 62.8	50.0 67.3 54.2 52.0
402.5 26.10 500.3	326.0 450.3 360.0 465.0	360.2 450.0 336.8	425.4 220.0 350.0 307.7 447.5	400.0 550.3 409.8 405.0
United States Shipping Board Lindvig Co. White Star Line Rohin Line Stramshin Co.	Pacific Mull Steamship Co. Commonwealth and Dom. Line. Peruvian Line. Standard Ooil Co. of New Jersey. United States Coverment	W. R. Grace & Co. Shaw, Saville & Albion Co. Chilean Line.	Peter Olsen. Pacific Steam Navigation Co. Pacific Steam Navigation Co. Pacific Mail Steamship Co. Royal Netherland Line.	Lancaster Shipping Co. Pacific Steam Navigation Co. Green Star Line. Andrew Weir & Co.
18.30 American 1.35 Norwegian. 22.47 British	15 American 30 British 50 Peruvian. 00 American	125 BA	55 Norwegian. 10 British. 20 British. 10 American. 25 Dutch	8.57 British 15.44 British 17.42 American 4.14 British
	259 6 259 6 25 20 11 30 6	26 15. 27 21. 1 10.	28 15. 1 6. 31 10. 29 13. 39 6.	30   8 30   15 30   17 30   4
422000	48000	2003	500000000000000000000000000000000000000	38 38 38
	444554 888888		28 15 28 18 28 18 29 20 29 20	29 23 30 21 30 12 30 12
	10.31 6.37 10.25 10.25		6.57 10.43 11.27 11.29 8.25	8.43 8.51 9.28 11.15
24 24 24 24 24 24 24 24 24 24 24 24 24 2	442888	27 27 27	22222	29 29 29 29
7.40 13.30 19.43	11.00 7.30 15.34	23,30 18,00 2,30	13.00 8.00 16.05 17.15	20.30 6.00 19.00 10.00
	23222		22728	28 28 28 28 28 28 28 28 28 28 28 28 28 2
Hawarden, Troja Corinthie. Robin Adair	Newport Port Chalmers Huallaga J. A. Bostwick Mt. Vernon (b).	Santa Ana Otira Imperial George	Washington (g) Jamaica	Castle Orca West Irmo

(g) Motor schooner. (h) Ex Sachem.

PORT OF CRISTOBAL.

	For—	Cartagena.  New York and Habana.  New Orleans and Bocas.  New Orleans.  Port Limon.  Bluefields.  Cartagena.  Cartagena.  Tampico.  Tampico.  Port Limon.  New Orleans.
*DEPARTURES.	Line.	Panama Railroad Cattle Industry. Cartazena. United Fruit Co. United Fruit Co. United Fruit Co. United Fruit Co. United Fruit Co. United Fruit Co. United Iruit Co. United Iruit Co. Royal Dusch West India Mail Co. United Iruit Co. Spanish Neumship Line. Pan-American Pet. and Transp. Co. Spanish Neumship Line. Partrison Steamship Line. New Orleans. New Orleans. Partrison Steamship Line. New Orleans.
	Vessel.	Caribbean Ulua Atorns Atorns Atorns Toloa Toloa Cape Fear Carrillo Gare Goven Montevideo Montevideo San Pabo
	Date.	May 23. May 23. May 23. May 25. May 26. May 27. May 27. May 27. May 28. May 28. May 28. May 28. May 28.
	From-	Port Limon. Saint Lucia. New Orleans and Habana. New York and Habana. Tampico. Tampico. New York and Haiti. Amsterdam. Galveston. Galveston. Liverpool and wayports. Cartagena. Boston. Norfolk. Norfolk. Norfolk. Norfolk.
*ARRIVALS.	Line,	United Fruit Co.  United States Shipping Board United States Shipping Board United Fruit Co.  New Vorleans and Habb Pan-American Fer and Transp.  New York and Haban Pan-American Fer and Transp.  Royal Dutch West India Mail Co.  Royal Dutch West India Mail Co.  Royal Dutch West India Mail Co.  Amsterdam.  Galveston.  Galveston.  Galveston.  Galveston.  Galveston.  Control Fruit Co.  United Fruit Co.  Onited Fruit Co.  Onited Fruit Co.  Onited Fruit Co.  Onited Fruit Co.  Now York and Kings Idverpool and waypon Panama Railread Cattle Industry Onfolk.  Panama Railread Steamship Line.  Norfolk.  Norfolk.
		Unite Unite Unite Unite Pana Roya Spana Unite Harr Pana Unite Pana
	Vessel.	Ulua. Unite Cartago Unite Cartago Unite Cartago Unite Cartago Unite Colon Colon Pana Pana Colon Crynssen Roys Montevideo Span Carrillo Unite Caribbean San Fabo Unite Achilles (c) Unite Achilles (c) Unite Achilles (c) Unite Achilles (c) Pana Gen. G. W. Goethals, Pana Gen. G. W. Goethals, Pana

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending May 29, 1920.

				Carg	)
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Ulua Cauca Atenas. Guatemala. Caribbean. Vulcan. Heffron. Newport. Huasco. Geo. W. Barnes. Cartago. Toloa. Santa Leonora. Colon. Carrillo.	United Fruit Co Pacific Steam Navigation Co United Fruit Co. Pacific Steam Navigation Co Panama Railroad Cattle Industry United States Navy. United States Army. Pacific Mail Steamship Co. Chilcan Line. Anglo-American (Standard Oil Co.) United Fruit Co United Fruit Co United States Army. Panama Railroad Steamship Line. United States Army.	May 18. May 16. May 24. May 24. May 24. May 25. May 25. May 25. May 25. May 22.	May 23. May 23. May 23. May 23. May 23. May 25. May 25. May 25. May 24. May 24. May 27. May 26. May 26. May 27.	7ons. 14½ 27 124 231 *8,500 186	Tons.  11 2 6 237  923 29  25 74 1713
Crijnssen. Montevideo. Governor Cuba. Antigone. Peru. Jamaica. Gen G. W. Goethals.	Royal West India Dutch Mail. Compania Transatlantica Leyland Line Pacific Mail Steamship Co. United States Army. Pacific Steam Navigation Co. Pacific Steam Navigation Co.	May 26. May 26. May 27. May 28. May 28. May 28. May 28.	May 27 May 27	92 5 100 5 600 4	20 41

* Oil

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending May 29, 1920.

				Cargo—		
Name of vessel.	Line or charterer.	Arrived. , Departed.		Discharged	Laded.	
Newport. J. A. Bostwick Northland Cuba. Peru. Jamaica. Salvador.	Pacific Mail Steamship Co Standard Oil Co Albers Brothers Milling Co Pacific Mail Steamship Co Pacific Steam Navigation Co Pacific Steam Navigation Co	May 23. May 23. May 25. May 27. May 27. May 28. May 29.	May 24	Tons. 322 12,121 248 133 40 4 100	Tons. 67	

### June Weather Probabilities.

The following weather conditions may be expected in the Canal Zone during the month of June, 1920. These predictions are based on the weather records at Cristobal and Balboa Heights for the last 13 and 15 years, respectively.

Winds-June weather is a continuation of the rainy season conditions of May, with no material change in any of the meteorological elements. Light variable winds will prevail with southeast winds predominating on the Atlantic Coast, and northwest winds over the interior and on the Pacific Coast. The average hourly velocity will be about 7 miles on the Atlantic Coast and about 6 miles on the Pacific

Rains—Heavy showers may be expected over the Isthmus. The average monthly rainfall at Cristobal is 13.35 inches, and at Balboa Heights, 7.56 inches. The average number of days with rainfall of 0.01 inch or more is 25 on the Atlantic side and 20 on the Pacific side, while the average number of days with 1 inch or more is 5 and 2, respectively.

Fogs-No fogs are likely to occur at either Canal entrance. Night and early morn-Ing fogs may be expected quite frequently over the interior. Most of these will be

light, however, and will be dissipated before 8.30 a.m.

Temperature—The average monthly mean temperature is about 80° Fahrenheit on both coasts. The mean daily range in temperature is about 14° on the Pacific side and about 9° on the Atlantic side. No material departure from these averages The extremes of record are 95° and 70° but this great a range may be expected. in temperature seldom occurs.

Relative humidity—The relative humidity will average about 85 per cent on both coasts; the daily range, however, will be considerably greater on the Pacific side. Storms-Local rain and thunder storms may be expected quite frequently during the month. During these storms wind velocities of from 30 to 35 miles may be obtained, but they are of too short duration to cause a rough sea. Generally cloudy weather with smooth to moderate seas may be expected at both Canal entrances.

Tides—The tidal fluctuations on the Atlantic side are too small to affect navigation. Balboa tide predictions for June are given below: These are taken from "Tide Tables for 1920," published by the Department of Commerce, Washington, D. C.

Da	y of-	Time	and He	ight of	High	Da	y of-	Time	and He	ight of	High	Day	of-	Time	and He	eight of	High
W.	Mo.	8	nď Lov	Wate	r.	W.	Mo.	aı	nd Low	Wate	r.	w.	Mo.		and Low		
Tu	1	3:29 14.2	9:37 2.3		10:02 1.1	F	11		10:46 13.6		11:18 12.7	М	21	1:03 -0.1	7:29 16.5	1:36	7:4 ⁷ 15.8
W	2	4:09 14.3	10:16 2.2	4:15 14.9	10:38 1.0	S	12		11:50 14.2	6:12 2.9		Tu	22	1:58 0.9	8:20 15.8	2:35	8:4 ¹ 14.8
Th	3	4:48 14.4	10:52 2.2	4:53 14.7	11:16 1.2	S	13	0:28 13.4		12:46 15.0	7:11 2.0	W	23	2:55 1.9	9:15 15:0	3:37	9:40
F	4	5:28 14.3	11:30 2.4	5:31 14.5	11:51 1.5	М	14	1:21	7:34 2.3	1:41 15.9	8:07 1.0	Th	24		10:14 14.3	4:36	10:45 13.2
S	5	6:06 14.2	12 .07 2 .8	6:11 14.1		Tu	15	2:13 15.2		2:34 16.6	8:59 -0.1	F	25	4:51 3.5	11:19 13.9	5:35 3.4	11:53 12.8
S	6	0:28 1.9	6 :45 14. I	12:48 3.2	8:49 13.7	W	16	3 :03 16.1	9:22 0.6	3:20 17.2	9:50 -0.9	S	26	5:50 4.0	12.19 13.8	6.35 3.5	
М	7	1:07	7:23 13.9	1:32	7:30 13.3	Th	17		10:13 0.0		10:38 -1.4	s	27	0:53 12.9	6:49 4.1	1:12	7:29
Ta	8	1:53 3.0	8:08 13.6	2:22	8:13 12.9	F	18		11:01 -0.3		11:2E -7.4	М	28	1:44 13.2	7:43 3.9	1:58	8:19
W	9	2:42 3.5	8:49 13.5	3:19 4.2	9:04 12.6	S	19		11:51 -0.1	6:02 17.1		Τu	29	2:30 13.5	8:33 3.6	2:38 14.4	9:03
Th	10	3.38 3.7	9.45 13.4	4:16	10: <b>0</b> 7 12.4	s	20	0:14	6:36 17.0	12:42	6:5: 16.6	W	30	3:11 13.9	9:17 3.1	3:19 14.6	9:43

The tides are placed in the order of their occurrence; the times of high and low tides are shown on the upper lines. The figures in boldfaced type are hours and elevations between noon and midnight; ante meridian figures are given in the ordinary lightfaced type. The time is Cosmopolitan Standard for the meridian 75° W.

The elevations of the water are shown on the second line for each day; a comparison of consecutive heights will indicate whether it is high or low water. Heights are reckoned from mean low water springs, which is 8.3 below mean sea level and is the datum of soundings on the Coast and Geodetic Survey charts for this region. The depth of water may accordingly be estimated by adding the tabular height of the tide to the soundings, unless a minus (-) sign is before the height, in which case it is to be subtracted. The annual inequality or variation in the mean sea level is included in the predictions.

# Sunday Afternoon Launch Trips from Taboga to Taboguilla.

Hotel Aspinwall at Taboga has made arrangements to carry parties from the hotel to the beach on Taboguilla Island, and return, Sunday afternoons. The launch will leave the hotel landing at 2 o'clock and leave Taboguilla at 4 o'clock. The fare for the round trip is 25 cents.

# College Entrance Examinations.

College entrance examinations will be held in the office of the Superintendent of Schools, Administration Building, Balboa Heights, during the week beginning June 21 and ending June 26, 1920. These are the examinations prescribed by the College Entrance Examination Board for the leading colleges in the United States.

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Board of Civil Service Examiners, Balboa Heights (telephone 286);

Expert and special agent (male and female); \$1,200 to \$1,600 a year; July 7 to 8, 1920; form 1312; age, 20 years but not 40 years.

Natural gas engineer (male and female); \$4,140 to \$5,040 a year; July 6, 1920; form 2118; age, under 45 years.*

Associate natural gas engineer (male and female); \$3,240 to \$3,840 a year; July 6, 1920; form 2118; age, under 45 years.

Organic chemist (male and female); \$3,000 a year; July 6, 1920; form 2118; and B. I. A. 2; age, under 40 years.*

Inorganic chemist (male and female); \$3,000 a year; July 6, 1920; form B. I. A. 2 and form 2118; age, under 40 years.*

age, under 40 years.*

Technical examinate for mineral and metal claims investigations (male and female); \$3,300 to \$4,800 a year; July 6, 1920; form 1312; age, under 65 years.*

No. 311-amendment; senior architect; June 22, 1920. The United States Civil Service Commission announces that the entrance salary of the position of senior architect in the Interstate Commerce Commission, under the act providing for the valuation of the property of common carriers, will range from \$1,902 to \$2,700 a year, instead of from \$1,800 to \$2,700 a year as stated in the original announcement of the examination to be held on June 22, 1920, for this position.

No. 242-amendment; statistical agent; June 9, 1920. The United States Civil Service Commission announces the postponement from May 19 to June 9, 1920, of the open competitive examination for statistical agent, to be held at the places listed on original announcement No. 242, for fulling vacancies in the Bureau of Fisheries, Washington, D. C., and in positions requiring similar qualifications,

at \$1,000 a year or higher or lower salaries.

The maximum age limit of 35 years prescribed in the original announcement has been raised to 55 years. Applicants must have reached their 20th but not their 55th birthday on the date of the examination, except in the case of persons entitled to preference because of military or naval service,

to whom age limits do not apply.

to whom age limits do not apply.

No. 578-amendinent; field assistant in insect control. The United States Civil Service Commission announces that for the position of field assistant in insect control, Bureau of Entomology, Department of Agriculture, the entrance salary will range from \$1,200 to \$1,800 a year; instead of from \$900 to \$1,800 a year, as stated in the original announcement. The salaries of the three grades will be as follows: grade 1, \$1,200 to \$1,400 a year; grade 2, \$1,400 to \$1,600 a year; grade 3, \$1,600 to \$1,800 a year; grade 5, \$1,600 to \$1,800 a year. Suppointed whose services are satisfactory may be allowed the temporary increase granted by Congress of \$20 a month.†

Special agent (male and female); Special Intelligence Unit, Bureau of Internal Revenue; grade 1, \$1,500 to \$2,250 a year; grade 2, \$2,500 to \$3,000 a year; No. 324; June 23, 1920; form 1312; age, 25 years but not 45 years.

Superintendent of motor transportation (male and female); No. 333; \$2,100 to \$2,400 a year; June 22, 1920; age, 25 years and over.*

Typewriter repairman (male and female); \$900 to \$1,500 a year; No. 335; \$900 to \$1,500 a year; June 22, 1920; form 304; age, 18 years and over.*

Typist. Clerk with knowledge of stenography (male and female); \$900 to \$1,200 a year; June 4, 1920; form 304; age, 18 years and over.

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications and they must be in the hands of the Commission at Washington prior to the hour of closing business on that day.

†Applications will be received at any time until further notice.

### Official Circulars.

### Paymaster.

THE PANAMA CANAL, EXECUTIVE DEPARTMENT,

BALBOA HEIGHTS, C. Z., May 23, 1520. To all concerned—Effective June 1, 1929, and during the absence on leave of Mr. R. W. Glaw, Paymaster, Mr. C. L. Bryan, Assistant Paymaster, will perform the duties of Paymaster.

JAY J MORROW, Acting Governor.

### Maintaining Water Level-Gatun Lake.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., May 22, 1920. All concerned—The following schedule for maintaining Gatun Lake during the 1920 rainy season will be adhered to as closely as conditions

permit:
The lake will be allowed to fill to elevation
+85.5 feet before any water is wasted over the
spillway. This elevation should be reached in

spillway. T June or July

The lake will be held between elevations +85.5 feet and +86 feet until the 1st of October; filled to elevation +86.5 feet in October; and the filling will be completed to elevation +87 feet in November

The allowable variation in lake level is increased to 0.5 foot to lessen the number of spillway gates operated simultaneously in regulating the lake level.

JAY J. MORROW, Acting Governor.

### Names of Streets.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., May 22, 1920.

To all concerned—Supplementing circular of March 31, 1920, names are given to the following: The blind street leading from Fourth of July Avenue up Ancon Hill on which are located the quarters occupied by the cable company's employees shall be known as Field Place.

The blind road leading from La Boca Road and ascending Sosa Hill on which are located quarters occupied by the Union Oil Company of California.

occupied by the Union Oil Company of California employees shall be known as Union Place.

The road leading from Amador Road, near the Radio Station, to the Quarantine Station, Mañana Club, and Balboa Yacht Club shall be known as Quarantine Road.

> JAY J. MORROW, Acting Governor.

### Acting Master of Transportation.

THE PANAMA RAILROAD COMPANY, OFFICE OF SUPERINTENDENT BALBOA HEIGHTS, C. Z., June 1, 1920.

HEADS OF DEPARTMENTS AND DIVISIONS:

Effective this date, and during the absence on leave of Mr. W. F. Foster, Mr. W. J. Bissell will act as Master of Transportation for the Panama Railroad Company.

> S. W. HEALD, Superintendent.

Approved: CHESTER HARDING, President.

### Timekeeping Rules-Relief Days.

THE PANAMA CANAL,

ACCOUNTING DEPARTMENT BALBOA HEIGHTS, C. Z., May 20, 1920.

To all concerned-Effective at once, the use of special authorities to cover time off on account of work performed on Sundays or holidays will be discontinued.

The time off must be shown in timebooks by writing the letter "R" and the date of the Sunday or holiday worked which entitled the employee to time off. To illustrate: Where an employee worked Sunday. May 2. and was granted a relief day May 26 the timebook for May 26 will show.

will show

R

In case the employee worked one-half day the 26th and was granted a half day relief time in the afternoon, the time book will show

R 5-21

Existing Timekeeping Rules as contained in Sections 52, 53, 54, and 85, are hereby amended as regards relief days only.

H. A. A. SMITH, Auditor, The Panama Canal.

Approved:

JAY J. MORROW, Acting Governor.

### Procurement of Supplies by the Army from The Panama Canal.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT

BALBOA HEIGHTS, C. Z., May 22, 1920. To all concerned—Please note the following which has been transmitted to this office by the Depart-ment Quartermister, Panama Canal Department under date of May 18, 1920:

"PURCHASE AND STORAGE \

NOTICE No. 96.

Subject: Procurement of Supplies from the Panama Canal Government.

1. Under existing agreements between the Panama Canal Government and this office certain supplies are procured from the Panama Canal Government for use of the Army stationed on the Panama Canal Zone at cost, plus a surtax of 10 per cent, and there being no competition in securing these supplies the execution of formal contracts

these supplies the execution of formal contracts is not required.

2. Hereafter, supplies procured from the Panama Canal Government where authority for such procurement has been given will be procured on purchase orders (Q. M. C. form No. 108-B), and formal contracts covering such procurements will not hereafter be required. In the use of the above form for this purpose the contract provisions should be crossed out, as these are not applicable between different departments of the applicable between different departments of the Government.

By authority of the Quartermaster General, Director of Purchase and Storage,

M. H. HANSON, Lieut. Colonel. Q. M. Corps, Executive Officer." Н. А. А. Ѕмітн, Auditor, The Panama Canal.

### Joint Commission.

### Decisions of the Umpire.

In the matter of the claim of Francisco Filos and In the matter of the claim of Princisco Pulsa and Isabel Hernandes for property located near the town of Las Cascadas in the District of Empire, known as "Cuatro Caminos," Decision of the Universe, award No. 222, docket No. 3046, May 29, 1920—The above-entitled claim was certified to the undersigned Umpire on the questions of liability and title.

The American Members of the Commission deny claimants' right to compensation holding:

(a) That claimants' title is not sound;

(b) That the title presented by them is dated December 5, 1903, "17 days after the Panama Canal Treaty had been negotiated between the United States and the Republic of Panama;

(c) That no evidence was introduced showing

(c) That no evidence was introduced showing an actual occupancy of the land by claimants; (d) That in the French Canal Company's map® these lands are marked "tierras baldias" (public lands)

The Panamanian members, on the other hand, contend

(a) That this claim is based on a public deed which was duly recorded in the Office of Regis-tration of public instruments in conformity with the laws of the Republic governing title to real

estate:

(b) That the rights of claimants to the lands known as "Cuatro Caminos" originated in the vendor to the present claimants who had been in possession of this property from "California to the present claimants who had been in possession of this property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property from "California to the property fro vendor to the present claimants who had been in possession of this property from "California times," and that which was done in 1903 (in April, 1903, and not subsequent to November, 1903, when the Treaty was signed, page 112, transcript) was to reconstruct the titles; fur-thermore a title can not be declared good or bad by reason of its being before or after the date of the treaty.

the treaty;
(c) That the Civil Code of Colombia in force in the Republic of Panama and in the Canal Zone does not require physical occupation of lands to prove ownership to real estate (Articles 756, 769, 785, 204, 780)

prove ownership to real estate (Articles 730, 793, 785, and 789).

(d) That the validity of a public deed can not be extinguished by data appearing on a topographical map made by a company which has not the power to give or withdraw rights of private individuals, and the fact that the Government of the United States by direct settlement and by awards of the Joint Commission paid for lands adjoining "Cuatro Caminos" is in favor of the present claimants.

The Panamanian Commissioners further state that the Joint Commission has formally adopted

The Panamanian Commissioners further state that the Joint Commission has formally adopted a rule with reference to the admissibility of evidence to the effect that "the Commission will follow the procedure of a commission of inquiry rather than the technical rules of evidence," and rather than the technical rules of evidence," and it is their opinion that in right and equity claimants are entitled to an award of \$6,597 or at the rate of \$30 per hectare for the damage sustained by them on account of the expropriation of this lot of land.

lot of land.

lot of land.

Inasmuch as claimants have acquired title in accordance with the laws of the Republic of Panama, and in view of the fact that the above appraisal is in conformity with awards which I have made for lands in this vicinity, an award is hereby made against the United States in favor of Francisco Filos and Isabel Hernandez in the sum of \$6,597, for all right, title, and interest the said Francisco Filos and Isabel Hernandez in the sum of \$6,597, for all right, title, and interest the said Francisco Filos and Isabel Hernandez may consess or may have possessed in and terest the said Francisco Filos and Isabel Hernandez may possess or may have possessed in and to the 219.9 liectares of land known as "Cuatro Caminos" located in the Canal Zone near the town of Las Cascadas, subject of claim docket No. 3046, including any and all damages sustained by the said Francisco Filos and Isabel Hernandez on account of the expropriation of this property by the United States of America. This award shall be paid in the proportions and amounts as follows: amounts as follows:

To Francisco Filos, one-half (1/2) thereof.... o Isabel Hernandez, one-half (1/2) \$3,298.50

To Isabel Hernandez, thereof. 3,298,50

\$6,597.00 Total......\$6,597.00
This award shall be paid on or before the 29th day of June, 1920, and if payment or tender of payment is not made on or before that date, said award shall thereafter bear interest at the rate of 6 per centum per annum until paid.

Done in the National Palace, Panama, on the Total..

29th day of May, 1920.

(Sgd.) MANUEL WALLS Y MERINO, Umpire.

Distribution Among Ports of Cargo Passing Through the

	elsto]	Ĺ	93 910	17,954	16,480	18,154	10,493	7,250	8,572	397,025
Atlantic to Pacific, April, 1920Continued from page 623.	abo de Puerco, R. de P.						-:			920
	orinto, Nicaragua,	0			:		349	200	:	4,849
	hamperico, Guatemala.	о			:		948			1,648
-Contin	C. Z.	E		:		:	11.000			11,000
11, 1920.	(okohama, Japan,	2	:	:		18,154		-		91,950
fic, Apr	Vladivostok, Siberia.		:		6,980	:				6,980
to Paci	Shanghai, Straita Settlements.	3	:	:	:	:		:		15,655
Atlantic	Vagasaki, Japan.		:	:	:			:		7,500
Canal From	Manila, I. I.		:	:	:					8,072
Canal	Коре, Јарап.			:			:			18,512
mrougn the	Hakodate,						:		1000	3,820
	P. C.					:	:	8,572	010	16,372
Silles I dailed I dayling	Seattle, Wash.					:	,		10 454	12,451
10	SanFrancisco, Cal.			7,500		2,071	:		630 66	500,07
2	New Zealand.				:	:			0 210	0,010
	Melbourne,				:				2 000	0,000
	Lyttleton, New Zealand.				:	:			6 000	200,00
	From—	Newport News, Va	Norfolk, Va	Philadelphia, Pa	Savannah, Ga	Tempion Movies	Tuxpan, Mexico	Cienfuegos, Cuba	Totals	

# MOVEMENTS OF OCEAN VESSELS.—Continued from page 625.

			Don	10.7	San Francisco.	Callao.		
PORT OF BALBOA.		DEPARTURES.	Line,		All American Colling Co.	Callao.		
			Vessel.		May 27 Northland			
			Date.		May 27			
		From-			Funtarenas, Chile, High seas. (i)	San Francisco.	callna Cruz.	
	*ARRIVALS.		rane.	Sudden & Christenson	Kabushiki Kaisha Kawasaki	All Amorican Cakles Co	An American Capies Co	
		Vescol	Vessel.		Kifaku Maru	Chardian Chardian		
		Date		May 23	May 25.	May 96		

(i) Returning from high sens for repairs. (j) Cable ship. *Other than ships passing through the Canal. Hows are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

## THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

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at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., June 9, 1920.

No. 43.

### Departure of the "Mount Vernon."

The United States Army transport *Mount Vernon*, which passed through the Canal on May 25, on her way from Vladivostok to Hamburg with Czecho-Slovak soldiers and German prisoners, cleared from Cristobal on June 5. Under a change of orders she cleared for Hamburg direct, instead of by way of Norfolk, after receiving 5,610 tons of coal from the Cristobal coaling plant. Delay of several days was occasioned by repairs to the refrigerating equipment.

While the *Mount Vernon* was tied up at Cristobal the Czecho-Slovak soldiers were quartered in a part of Pier 6, where shower baths, cots, etc., were arranged for their accommodation. The prisoners remained

aboard the ship.

The case of fever taken off at Balboa and transferred to Ancon Hospital for laboratory diagnosis was found not to be typhus fever, or other quarantinable disease, and the quarantine against the ship was removed. This patient, and another taken from the ship for hospital treatment, are still in the hospital.

### Canal Traffic in May.

Canal traffic for May, 1920, is shown as classified in the following tabulation:

No.	Registry.		Registered	Panama Canal net	Tons	Pacific to	Atlantic.
chips.	negistry.	gross tonnage.	tonnage.	tonnage.	cargo.	From-	То—
29 2 2 1	American British Norwegian Dutch	150,633 13,960 7,055 4,370	99,940 8,390 4,377 2,727	117,891 10,328 5,720 4,322	199,625 10,972 11,902 7,000	W. coast S. America W. coast S. America W. coast S. America W. coast S. America	E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S.
34		175,748	115,434	138,261	229,499	W. coast S. America	E. coast U. S.
10 3 2	British Chilean Peruvian	13,911 10,341 8,065	7,676 6,193 4,587	10,012 8,518 5,459	8,397 3,037 3,615	W. coast S. America W. coast S. America W. coast S. America	Cristobal. Cristobal. Cristobal.
15		32,317	18,456	23,989	15,049	W. coast S. America	Cristobal.
6 2 1 1 1	British Italian Dutch Peruvian Norwegian	42,317 10,343 6,899 4,403 4,009	26,939 6,308 4,417 2,090 2,056	32,521 7,882 6,653 2,386 3,009	39,470 5,829 9,856 1,338 5,647	W. coast S. America W. coast S. America W. coast S. America W. coast S. America W. coast S. America	Europe. Europe. Europe. Europe. Europe.
11		67,971	41,810	52,451	62,140	W. coast S. America	Europe.
9	American	51,195	32,633	40,287	60,832	U. S. coastwise.	
6	British American	49,232 5,642	31,279 3,479	40,430 4,741	33,610 5,800	Australia and N. Z'land Australia and N. Z'land	
7		54,874	34,758	45,171	39,410	Australia and N. Z'land	Europe.
4 2 1	American British Norwegian	28,755 13,803 7,020	19,882 8,691 4,420	23,060 10,313 5,095	Ballast Ballast Ballast	W. coast S. America W. coast S. America W. coast S. America	Mexico. Mexico. Mexico.
7		49,578	32,993	38,468	Ballast	W. coast S. America	Mexico.

No.	D		Registered		Tons	Pacific to	Atlantic.
ships.	Registry.	gross tonnage.	net tonnage.	Canal net tonnage.	cargo.	From-	То-
2 2 1	Japanese American British	13,709 9,090 4,757	8,547 5,903 3,050	10,326 6,759 4,364	17,772 6,886 7,000	Far East. Far East Far East	East coast U. S. East coast U. S. East coast U. S.
5		27,556	17,500	21,449	31,658	Far East	East coast U. S.
2 2	British American	12,222 9,832	7,766 9,754	8,764 9,909	7,546 16,016	Australia and N. Z'land Australia and N. Z'land	East coast U. S. East coast U. S.
4		22,054	17,520	18,673	23,562	Australia and N. Z'land	East coast U. S.
4	American	15,548	10,289	11,456	15,050	West coast U. S	Cuba.
2 1	British Norwegian	8,264 7,093	5,215 4,479	6,111 5,627	10,195 9,100	West coast U. S West coast U. S	Europe. Europe.
3		15,357	9,694	11,738	19,295	West coast U. S	Europe.
3	British	15,136	9,556	13,911	22,209	W. coast S. America	Egypt.
3	American	6,854	4,178	4,746	8,410	W. coast S. America	Cuba.
3	British	3,297	1,915	2,143	2,799	W. coast Cen. America.	Cristobal.
2	American	14,116	8,711	10,653	Ballast	W. coast U. S	Mexico.
2	American	4,796	2,963	3,756	3,206	West coast U. S	Cristobal.
1	British	6,828	4,247	5,272	Ballast	*W. coast U. S	East coast U. S.
1	American	6,330	3,863	4,391	Ballast	British Columbia	Mexico.
1	American	5,900	3,670	4,798	7,139	Far East	Cuba.
1	Swedish	5,765	3,544	5,051	7,582	West coast U. S	Egypt.
1	British	3,808	2,410	2,662	3,476	W. coast Cen. America.	United Kingdom.
1	American	3,404	2,163	2,459	2,695	West coast U. S	N. Colombian ports.
1	American	2,265	1,350	1,650	2,230	West coast U. S	Porto Rico.
119		590,697	379,657	463,435	556,241		

*Not coastwise.

No.	Registry.	Registered gross	Registered net	Panama Canal net	Tons	Atlantic to	Pacific.
ships.		tonnage.	tonnage.	tonnage.	cargo.	From-	To-
22	American	86,369	57,207	66,312	57,822	East coast U. S	W. coast S. America.
3	British Dutch	18,548 5,850	11,518 3,761	15,598 4,256	9,645 Ballast	East coast U. S East coast U. S	W. coast S. America. W. coast S. America.
i	Norwegian	2,095	1,302	1,689	3,095	East coast U. S	W. coast S. America.
27		112,862	73,788	87,855	70,562	East coast U. S	W. coast S. America.
11	British	17,484	9,669	13,119	3,780	Cristobal	W. coast S. America.
3 2	Peruvian Chilean	12,682	7,014	8,312	1,708	Cristobal	W. coast S. America.
1	American	7,612 615	$\frac{4,560}{372}$	$\frac{6,043}{350}$	639 571	Cristobal	W. coast S. America. W. coast S. America.
17		38,393	21,615	27,824	6,698	Cristobal	W. coast S. America.
9	American	60,053	37,293	49,389	75,392	East coast U. S	Far East.
3	British	21,369	13,768	19,481	25,657	East coast U. S	Far East.
3	Japanese	15,694	10,926	12,318	16,100	East coast U. S	Far East.
15	,	97,116	61,987	81,188	117,149	East coast U. S	Far East.
8	British	44,550	28,584	35,948	49,222	East coast U. S	Australia and N. Z'd.
1	American	5,504	3,394	4,730	5,000	East coast U. S	Australia and N. Z'd.
9		50,054	• 31,978	40,678	54,222	East coast U. S	Australia and N. Z'd.
5	American	34,640	24,137	28,186	44,725	Mexico	W. coast S. America.
2	British	9,901	5,907	7,060	13,040	Mexico	W. coast S. America.
1	Norwegian	7,022	4,438	5,093	9,280	Mexico	W. coast S. America.
. 8		4 51,563	34,482	40,339	67,045	Mexico	W. coast S. America.
7	American	35,522	24,637	28,090	28,205	U. S. coastwise.	

No.	Registry.	Registered	Registered net	Panama Canal net	Tons	Atlantic to	Pacific.
ships.	Registry.	tonnage.	tonnage.	tonnage.	cargo.	From—	То-
2 2 2	Dutch Italian British	13,843 13,793 7,725	8,831 8,103 4,913	13,460 9,204 6,246	700 100 8,058	Europe. Europe. Europe.	W. coast S. America. W. coast S. America. W. coast S. America.
6		35,361	21,847	28,910	8,858	Europe	W. coast S. America.
3	British	18,828	12,013	14,491	17,230	Europe	Australia and N. Z'd
2	American	15,642	9,629	11,881	19,700	Mexico	W. coast U. S.
1 1	Swedish American	3,767 2,341	2,865 2,273	4,089 2,185	5,044 Ballast	Europe	W. coast U. S. W. coast U. S.
2		6,108	5,138	6,274	5,044	Europe	W. coast U. S.
2	American	4,796	2,963	3,756	3,589	Cristobal	W. coast U. S.
2	British	2,298	1,304	1,398	1,110	Cristobal	W. coast C. America.
1	British	5,919	3,656	4,209	6,500	East coast U. S	W. coast C. America.
1	Japanese	5,725	3,566	4,116	6,761	East coast Mexico	Far East.
1	American	4,230	2,655	3,047	5,615	East coast U. S	W. coast Canada.
1	British	3,618	2,333	2,958	390	Europe	W. coast C. America.
1	American	2,730	1,693	1,976	Ballast	Cuba	W. coast S. America.
105		490,765	315,284	388,990	418,678		

### Projected Colombian Steamship Services.

In response to a request from The Panama Canal for information regarding press reports of the proposed establishment of a steamship line connecting Puerto Colombia, Cartagena, Santa Marta, San Andres, Kingston, Santiago, and New York, the following has been furnished by the American Vice Consul in Cartagena, Colombia:

The Empresa de Scharberg which has been handling the river freight of the Atrato and Sinú is to be taken over by the Carib Trading Company, a new corporation controlled by the Carib Syndicate, Limited, of New York, and capitalized for \$2,000,000. The two vessels now in the service of the Empresa de Scharberg, of which Mr. Frank A. Scharberg, an American, is proprietor, will be overhauled and continue in the coastwise trade of Colombia, the steamer Sinú running between this port and the Sinú River, and the Buffalo running on the Atrato.

The Carib Trading Company is now fitting out the Catco, a steamship of 600 tons, which will shortly leave New York for Cartagena. This vessel will be used in the trade along the Pacific Coast of Colombia, passing through the Panama Canal, and

calling at the Atlantic coast ports of Colombia.

Should this venture be successful the company intends to add two more steamships, making more extensive runs to Caribbean ports. It is also the intention of the company to place river boats on the Magdalena, making use of the Dique to bring the freight to the coast.

Agents have been appointed at Barranquilla, Santa Marta, Cristobal, Buenaventura, and Tumaco.

### Regular Service Between San Francisco and Habana.

The Pacific Mail Steamship Company has established a regular passenger and cargo service between San Francisco and Habana. Sailings are now every two months, using the steamer *Cuba* (formerly the *Sachem*). Passengers and cargo are handled at the Canal ports, and usually a stop of several days is made in Canal waters, which gives the passengers opportunity to see the Canal Zone and Colon and Panama. Additional ships are slated for this service when they can be released from the Oriental service of the company.

# MOVEMENTS OF OCEAN VESSELS.

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2,952	8,000	7,755	8.917	3.010		699	(e)		8.300	S	6.681	3,417	1.790	9,639	69
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Nuevitas.Cuba Lumber	Wilmington	Liverpool	New York	Baltimore	Tampico	Cristobal	London	Tampico	Wilmington	Gothenberg	Bordeaux	Cristobal	Nuevitas, Cuba	Charleston	Cristobal
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46.1	54.0	67.3	55.7	44.1	57.1	29.1	55.0	57.2	54.2	57.0	50.3	46.0	43.6	54.2	25.6
272.8	401.2	550.3	414.7	289.1	425.2	190.0	395.5	419.4	403.7	425.8	397.9	360.0	251.0	403.6	81.0
Brooks Scanka Corp	United States Shipping Board	Pacific Steam Navigation Co	United States Shipping Board	Pacific Mail Steamship Co	W. Wilhelmsen	Colombian Maritime Co	United States Steel Products Co.	Standard Oil Co	United States Shipping Board	United States Shipping Board	Transatlantic Steamship Co	Peruvian Line	United States Shipping Board	United States Shipping Board	Pacific Metals Corp.
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Anson S. Brooks	man. Cordelia		miral		:	Balboa	:	53	:	City of Reno	_	Mantaro			Laura C. Hall d

(d) Motor schooner. (e) General, 2,623 tons; lumber 3,030,030 fzet. (f) 77,503 barrels.

PORT OF CRISTOBAL.

		For—	New York and Habana.  e. New York and Haiti.  Puerto Colombia.  New York and San Juan.  Poer Limon.  Por Limon.  New Orleans and Rt. Colom.  Cartagena and Rt. Colom.  Colon.	
	*DEPARTURES.	Line.	uited Fruit Co.  numann Railroad Steamship Lin  numis Railroad Steamship Lin  numis Steamship Line.  nuted States Army.  nited Fruit Co.  viama Railroad Steamship Lin  numan Railroad Steamship Lin  numan Railroad Steamship Lin  via N. N. Powellson.	
		Vessel.	Tolos	
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		Date.	May 30. May 30. May 30. June 1. June 2. June 2. June 2. June 2. June 4.	
		From-	Port Linnon. Barcelona and wayports. New Ordens. New York. New York via Haltii. New York via Haltii. New York via Haltii. Liverpool and wayports. Colon.	
	*ARRIVALS.	Line.	United Fruit Co. Spanis Stemship Line. United Fruit Co. Panama Railroad Stemship Line. United Fruit Co. Panama Railroad Stemship Line. Panama Railroad Stemship Line. Panama Railroad Stemship Line. Leyland Line. W. Y. N. Powellson.	
		Vessel.	Toloa Antonio Lopez Heredia Allianea Calamares Calamares Can H. F. Hodges. Median	

(9) Transport.

PORT OF BALBOA.

	1	
	For—	San Francisco.
*DEPARTURES,	Line.	Sudden & Christensen
	Vessel.	Edna
	Date.	June 3
	From-	Seattle.
*ARRIVALS.	Line.	United States Shipping Board
	Vessel.	Lake Fitch
	Date.	June 3

Other than ships passing through the Canal.

Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending June 5, 1920.

				Carg	)
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Carrillo Achilles Manavi Toloa Heredia Allianca Antonio Lopez Calamares Colon Segura Balboa *Antigone Panama Gen. Geo. W. Goethals Gen. H. F. Hodges Median	United Fruit Co. Panama Railroad Steamship Line. Pacific Steam Navigation Co. United Fruit Co. United Fruit Co. Panama Railroad Steamship Line. Cia. General Transatlantica. United Fruit Co. Panama Railroad Steamship Line. Royal Mail Steam Packet Co. Columbian Maritime Marine. United States Army. Panama Railroad Steamship Line. Panama Railroad Steamship Line. Panama Railroad Steamship Line. Leyland Line.	May 28. May 30. May 30. May 31. May 31. May 31. June 1.  June 2. June 2.  June 4.	June 4 May 30. June 2. June 4. June 2. June 2. June 1. June 5. June 5. June 5. June 5.	†12,048 12 9 662 833 30 105 10 1,037	Tons. 57  34 341 11 23 300 10 51 19 233

*U.S. A. transport.

t Coal.

## Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending June 5, 1920.

				Cargo—		
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.	
Balboa Lake Fitch Balboa	Pacific Steam Navigation Co Colombia Maritime Co	May 23	June 1	6 3 4,600	1	

*Information unavailable previous to this report.

### Cable Office at Balkoa.

The principal office of the All-America Cables, formerly the Central and South American Telegraph Company, was moved the first of this month from the city of Panama to the company's new building on Gavilan Road, in Balboa. A branch office for the receipt of messages is maintained in Panama, at the corner of 14th and "B" Streets.

The new building is a 2-story concrete structure, 60 by 70 feet in plan. On the first floor are the instrument room, electricians' room, manager's office, and filing room, comprising the actual office space. The second floor is devoted to men's bachelor quarters, containing 12 chambers, a recreation room, bathrooms, and two small rooms for the storage of trunks.

A 1-story structure, also of concrete, known as the "battery house," was erected about 30 feet to the south and rear of the office building. It is divided into two rooms, one used as the battery room and the other as a storeroom.

### Diesel Oil \$4 a Barrel.

The price of Diesel oil to ships from the several private companies handling it at the Canal has been advanced to \$4 per barrel. It is suggested that ships requiring Diesel oil make arrangements in advance of arrival for delivery, as the supplies are limited and the companies are protecting the lines which have fueling contracts with them. The companies handling Diesel oil at the Canal now are the Panama Agencies Company, the Union Oil Company, and the West India Oil Company.

Passage of First Chilean Line Ship for New York.

Beginning the service of the South American Steamship Company (Chilean Line) between Valparaiso and New York, via the Canal and Habana, the steamer *Renaico* passed through the Canal northbound on June 7, clearing in the evening of that day for Habana. The ship arrived from Valparaiso, via Peru, direct with 82 first class and 4 third class passengers, discharged 14 of the former and 3 of the latter at Cristobal, and took on 18 first class and 100 third class passengers there, mostly for Habana. The *Renaico* carried 3,915 tons of through cargo, and did not handle cargo at Cristobal.

Prices of Miscellaneous Supplies.

The following are prices to individuals and companies, including the 25 per cent surcharge, effective June 1, 1920:

Commodity.	Unit.	Price.
rass, bar	Lb.	\$0.46
		.70
Fronze, Tobin	100.	
ement, at Panama: Departments of United States Government (including surcharge and bags)	Bag	1.1925
Departments of United States dovernment (including automated in Credit for empty bags returned.  Individuals and companies (including aurcharge and bags).	Bag	.085
Individuals and companies (including surcharge and bags)	Bag	1.765
Credit for empty bags returned	Bag	.25
Cement, at Colon: Departments of United States Government (includes surcharge and bags)		1.047
Departments of United States Government (includes surcharge and bags)	Bag	.08
Credit for empty bags returned. Individuals and companies (including surcharge and bags).	. Bag	1.5
		.2.
		.0.
		.47
asoline, in drums (motor grade)	Lb.	1.1
ead, aheet	. Lb.	.12
ead, a heet.  ead, pig  number, celling, siding, and flooring, 1" by 6"  number, flooring, 1" by 3" and 1" by 4"  number, flooring, 1" by 3" and 1" by 4"	. M ft. B. M.	118.7
amber, dening, 1" by 3" and 1" by 4"	. M ft. B. M.	143.7 100.0
Amber, flooring, 1' by 3 and 1 by 4	. M ft. B. M.	37
		.2
lufs, iron, machine, nexagon	Lb.	.17
		.12
Vails, common, wire	. Lb.	.1
		.2
Dolama Novy nagana	. Lb.	.2
		2.5
Oil, fuel, at Balboa and Cristogal—In bulk: United States Army and Navy, and vessels operated by same, barrel of 42 gallons Commercial vessels and individuals and companies, barrel of 42 gallons	Bb!.	2.5
United States Army and Navy and vessels operated by same, barrel of 42 gallons	Bbl.	2.7
Commercial vessels and individuals and companies, barrel of 42 gallons	Bbl.	2.7
Oils, greases, and lubricants: Oil, air compressor cylinder	Gal.	
Oil, arr compressor cynnaer. Oil, ammonia cyfinder. Oil, burning.		1.3
		.8
		1.
		1.
Oil, engine—in tins. Oil, engine—in barrels. Oil, gas engine, extra beavy—in drums.	Gal.	
		:
Oil, kerosene—in drums Oil, kerosene—in tins (cases) Oil, linseed, boiled	Gal.	2.
Oil, linseed, boiled Oil, linseed, raw	Gal.	2.
O:1 1J	· ·   Class	2.
		1.
Oil maning anging	Cal.	
Oil manino angino	Cal.	
Oil, marine engine. Oil, "Mineral Seal". Oil, nonliquid		
Oil atationary angine	Class	
	Gal.	2.8
Oil, stationary engine. Oil, signal.	Gal.	1.3

Commodity.	Unit.	Price.
Oils, greases, and lubricants—Continued.		
Oil, valve	Gal.	\$0.50
_ Oil, car	Gal.	.225
Grease, black, gcar	Lb.	.075
Grease, yellow, cup, No. 3.	Lb.	.125
Grease, yellow, cup, No. 5.	Lb.	.14
Grease, rod, special	Lb.	.225
Grease, tunnel bearing.	Lb.	.19
Tallow	Lb.	.225
Turpentine	Gal.	2.69
Turpentine substitute	Gal.	.46
Vaseline	Lb.	.11
Paint, lead, white, dry	Lp.	.125
Paint, lead, white, iu oil	Lb.	.15
Paint, zinc, white, dry	Lb.	.225
Paint, zinc, white, 35 per cent in oil	Lb.	.19
Rivets	Lb.	110
Rivets Rope, Manila, ‡'' diameter	Lb.	75
Rope, Manila, 3 diameter.	Cft.	1.25
Rone Manila 1" diameter	Cft.	2.19
Rope, Manila, ¾'' diameter. Rope, Manila, ¾'' diameter.	Cft.	4 06
Rone Manila, 8 diameter	Cft.	4.69
Rope, Manila, ¾'' diameter. Rope, Manila ¾'' diameter.	Cft.	6.25
Rope, Manila, 1" diameter	Cft.	8.75
Rope. Manila. 1 1 diameter	1084	12.50
Rope, Manila, 1½" diameter	Cft.	16.50
Rope, Manila, 1 4/ diameter	Cft.	27.50
Rope, Manila, 2" diameter	C 64	30.00
Rope, Manila, $2\frac{1}{2}$ diameter	Cft	47.50
Rope, Manila, 3" diameter	Cft.	77.50
Rope, Manila, 3" diameter. Rope, Manila, 3\frac{1}{2}" diameter.	Cft.	102.50
Steel, bar	Lb.	.06
Steel, spring	Lb.	2
Steel, cold round (rolled)	Lb.	.20
Dieel, sheer	Lb.	.06
Sfeel, structural (angles, beams, etc.)	Lb	.06
lin, block	Lb.	.79
Tin, Banca	Lb.	.94
lin, sheet	Lb.	,225
Washers, cut	Lb.	.09
Waste, colored	Lb.	.21
Waste, white	Lb.	.20
Zinc, boiler plate, 5" by 6" by 12"	Lb	. 15

### Travelers Visiting the Isthmus during the Rainy Season.

The Marendaz Steamship and Tourist Agency, with headquarters in Waterbury, Conn., has advised the Hotel Tivoli that it will have a "tour de luxe" with about 20 persons leaving New York July 10 on the

steamship Toloa and arriving at the Isthmus about July 21.

This is the first touring party to come to the Isthmus since the past dry season. It is expected that it will be followed by others. It has been customary for the large tours to visit the Isthmus during the dry season, but with the spread of knowledge in the United States as to conditions on the Isthmus during the "rainy" season, and the realization that many permanent residents here prefer the rainy season to the dry, more persons will probably avail themselves of an opportunity to visit the Canal at any time of the year.

Comment on the weather was included in a folder entitled, "Panama—a place to visit," recently issued by The Panama Canal, as

June weather—The climate of Panama is approximately that of June in the North Atlantic States of the United States, from Virginia to New Hampshire. The mornings are bright and fresh, the days warm, the evenings refreshing, the nights cool.

Temperature—The highest temperature ever known on the Isthmus is 98° Fahrenheit, the lowest 59°. The annual mean temperature is approximately 80°. The maximum daily range is 27° on the Atlantic side and 19° on the Pacific side; the average daily ranges are about 8° ard 16°, respectively.

Rainfall—The "dry" season begins about Christmas, and ends about the middle of April. The rest of the year is the so-called "rainy" season. During the "rainy" season it does not rain all the time, usually not more than 1 or 2 hours in 24. As spread over the season, the rain falls about 1/20 of the time. This is equivalent to As spread over the season, the rain falls about 1/20 of the time. This is equivalent to

about 40 minutes of the daylight time of each 24 hours. About 20 days in each month have 1/100 of an inch or more of precipitation; the other 10 days have less than 1/100 of an inch of rainfall.

Breezes—Moderate winds occur. The breezes seldom run above 25 miles an hour, though winds blowing as high as 59 miles an hour have been recorded during brief

storms.

Pleasant for the visitor—In brief, the weather on the Isthmus, far from being the hot, humid, oppressive condition frequently imagined as existing throughout the tropics, is distinctly pleasant for the traveler and visitor. Under the regime of sanitation and municipal cleanliness carried on by the United States, the Isthmus is healthful and wholesome, a place of summery charm and freshness. Any land of continuous summer is enervating in the long run, of course, but for visits, as for a stay at a summer resort, the climate of Panama is delightful.

### Earthquakes Recorded by Canal Zone Seismographs.

Four hundred and fifty-seven earthquake tremors were recorded by seismographs installed in the Canal Zone from 1906 to the end of the year 1919, according to a summary recently prepared in the Section of Hydrography and Meteorology. None of them, however, caused more than trivial damage to any of the Canal structures, and the centers of disturbance were in all cases outside the Canal Zone. A large proportion were local disturbances, occurring in the Republic of Panama, not recorded by seismographs more distant than those of the Canal Zone.

The Chief Hydrographer states that the records do not indicate that Panama is typical "earthquake country," since the disturbances have been slight, with no approach to the violence of those which have occurred in Italy, Japan, Guatemala, Costa Rica, various Caribbean islands, the west coast of the United States, and many other countries. Seismographs all over the world record numbers of tremors not perceived by the population. The most interesting feature about the local records, he concludes, is the fact that nearly one-third have occurred within 200 miles of the Canal Zone, without any of them attaining very considerable violence.

The following general data are abstracted from a report which has

been prepared on the subject:

No record of quakes is available between 1904 and 1906, but from 1906 to 1908, inclusive, such quakes as were sufficiently intense were recorded by an old French seismoscope. During these 3 years 28 disturbances were recorded in this manner.

In December, 1908, 4 modern seismographs, forming 2 dual sets, were installed at Ancon. One set was transferred to Jurapo Island near Gatun dam, in April, 1911, but was returned to Ancon in February, 1914. Both sets were installed in their present location in the Administration Building at Balboa Heights in October, 1914.

Four hundred and twenty-nine seismic tremors were recorded in the 11-year period from the installation of the modern seismographs to the end of the year 1919. This is an average of 39 per year. Of these tremors, 32 per cent had origins within 200 miles; 28 per cent within 200 to 500 miles; 12 per cent within 500 to 1,000 miles; 14 per cent over 1,000 miles; and 14 per cent were classified as of indefinite origin. The last named were slight tremors not sufficiently marked to admit of calculation.

The most important disturbances, so far as the Isthmus and Canal works are concerned, are those tremors which have originated less than 200 miles away. These have ranged in distance from 11 to 200 miles with the majority between 100 and 150

miles.

These tremors with an origin between 100 and 200 miles are seldom perceptible unless more pronounced than those of nearer origin; nearly all the more violent disturbances experienced in the Canal Zone have had their origin a little more than 100 miles distant. Sufficient evidence was obtained during the many disturbances of October, 1913, to establish that their origin is to the southwest of Balboa Heights. Seismic tremors of a previous or later date, whose indicated distances are from 100 to 200 miles, all have similar markings on the seismograms, tending to indicate a common point of origin.

Those disturbances occurring between 200 and 500 miles away are occasionally felt In the Canal Zone but are quite often more noticeable at Bocas del Toro, 166 miles west of Colon. In fact, those at a distance of 200 to 300 miles have much the same relation to Bocas del Toro in intensity as the first group have to the Canal Zone, which would seem to indicate that their epicenters occur in a westerly direction from the Balboa Heights station.

On May 5, 1910, a violent earthquake was experienced in Costa Rica, the town of Cartago being practically destroyed, many persons killed and many more injured. As far as is known this disturbance was not felt in the Canal Zone, though the records obtained on the seismographs were very pronounced. The distance of the epicenter of this disturbance as shown by the instrumental records was 322 miles. The earth-quake was felt at other points in Central America.

The disturbances recorded between 500 and 1,000 miles away include all those occurring in Nicaragua, Salvador, Honduras, and Guatemala, and those occasional dis-turbances of northern South America. The seismic tremors in Central America are by far the most numerous, at least during the 11 years that the records at Balboa

Heights embrace.

The disturbances occurring at a distance greater than 1,000 miles include the comparatively close Mexican and Caribbean quakes and those of extremely remote and questionable epicenter. Probably the most important disturbances of which the Canal Zone instruments have obtained a record were the Mexican quake of July 30, 1909, the Martinique quake of January 1, 1910, and the Peruvian quake of July 24,

1912.

By referring to U. S. Navy Hydrographic Chart No. 526, it can be seen that there is an abrupt break or fault line in the ocean floor extending all along the Pacific Coast, and at no great distance from the shore line. It is probable that this fault line, in the majority of cases, is the seat of the seismic disturbances recorded at Balboa Haller and the seismic disturbances recorded at Balboa Heights. It would also seem that the adjustment which takes place along this fault occurs at different localities at different periods and that the movement is more active to the southwest, west, and northwest of the Canal Zone, at least, at the present time. The violent disturbances in Panama of September 7, 1882, probably had their origin along this fault, and it is reasonably safe to assume that the queer displacement recorded by the Canal Zone mareograph on January 31, 1916, was due to some movement of the ocean floor, perhaps along this same fault.

All dates given in this report are in Greenwich time, midnight to midnight, and all distances have been calculated from the difference in time between the arrival of the

first and second preliminary tremors.

### Areas of Danger of Malarial Infection.

The Chief Health Officer authorizes the following:

During the calendar year 1919, 83 employees (exclusive of those from pasture camps and plantations) and many members of their families were admitted to Panama Canal hospitals for treatment of malaria, with infection probably received

outside the sanitated areas.

It has required frequent reminders to the people that there are places in the Canal Zone where they are almost certainly safe from infection, and that there are other places where they are almost equally certain to become infected if exposed after nightfall. The ruins of old Panama, the Sabanas, the golf links, Pearl Islands, and numerous native villages, are attractive places of resort to which intections have been traced. In the dry season this danger is considerably lessened, but it is only inside the sanitated areas that one can be reasonably safe from infection at all times

Hotel Aspinwall to Conduct Swimming Meet.

A swimming exhibition, with races, will take place at Taboga on Sunday, June 13, under the auspices of the Hotel Aspinwall.

A number of children who have distinguished themselves at the Balboa pool will take part in the exhibition.

### Hotel Aspinwall Launch Service.

Effective June 1, the following is the schedule of Panama Canal launch service to the Hotel Aspinwall, Taboga, employing the 39-ton tug Coco Solo:

From Balboa-Leave Dock 19 daily, including Sunday, at 10 a. m.; Saturdays, extra launch at 6 p. m.

From Taboga—Daily except Sunday, 12.30 p. m.; Sundays, 8 a. m. and 6.30 p. m.

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Board of Civil Service Examiners, Balboa Heights (telephone 286):

Acetylene welder (male and female); \$1,500 a year; No. 327; June 22, 1920; form 1800; age, 20

Clerk-colorist (male and female); \$1,100 a year; July 7, 1920; form 304; age, 18 years and over. Designing engineer, electrical and mechan cal, or radio (male and female); \$2,500 to \$3,000 a year; June 29, 1920; form 2118; age, within reasonable age limits.*

Library assistant (male and female); No. 323; \$900 a year; June 23, 1920; form 1312; age, 18 years and over.

over. Mining draftsman (male and female); \$1,200 a year; No. 325; June 23, 1920; form 1312; age, 20

years and over Radio draftsman (male and female); \$2,500 or less; June 29, 1920; form 1312; age, 18 years and

Radio draftsman (male and female); \$2,500 or less; June 29, 1920; form 1312; age, 18 years and over.*
Radio draftsman (male and female); grade A, \$1,000 to \$1,400 a year; grade B, \$1,400 to \$2,000 a year; grade C, \$2,000 to \$3,000 a year; June 29, 1920; form 1312; age, 18 years and over.*
Reconstruction assistant (a) physiotherapy, (b) occupational therapy (male and female); \$600 to \$960 a year; September 7, 1920; form 304; age, 21 years and over.*
Assistant chief, office equipment and sundries section (male and female); \$2,100 a year; No. 340; June 22, 1920; form 1312; age, 20 years and over.*
Assistant mechanical engineer (male and female); \$1,680 a year; July 6, 1920; form 1312; age, within reasonable age limits.*
Junior topographer and topographic aid (male and female); \$720 to \$1,500 a year; form 1312; age, under 40 years.*
Junior topographer and topographic aid (male and female); \$720 to \$1,500 a year; form 1312; age, 20 years but not 35 years.†
Lockmaker (male and female); \$4.50 a day plus temporary increase granted by Congress of \$1.07 a day; No. 341; June 22, 1920; form 1800; age, 20 years and over.*
Radio engineer (aeronautical) (male and female); \$3,500 to \$5,000 a year; July 6, 1920.
Assistant radio engineer (male and female); \$1,200 to \$1,400 a year; July 6, 1920.
Scientific assistant (male and female); \$1,200 to \$1,400 a year; June 23, 1920; No. 336; form 1312; age, 20 years but not 40 years.
Shop manager, officers' uniform shop (male and female); \$2,400 to \$4,000 a year; No. 342; June 29, 1920; age, within reasonable age limits.*
Local and assistant inspector of boilers (male and female); \$2,100 to \$2,950 a year; No. 161; June 16 and 17, 1920; form 1087; age, 25 years but not 55 years.
Local and assistant inspector of boilers (male and female); \$2,100 to \$2,950 a year; No. 161; June 16 and 17, 1920; form 1087; age, 25 years but not 55 years.
Local and assistant inspector of bulls (male and female); \$2,200 to \$2,950 a year; No. 161; June 16 and 17, 1920; form 1087; age, 25 years but not 55 years.

†Nonassembled. Applications will be received at any time until further notice.

### Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings, or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possble. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Maximino Mendoza William Dean Benjamin Davis John Valentine Joseph Alleyne (Allen) Nathaniel Gittens Michael Kahn.	145596 51125 37227	Jamaica	Colon	Mechanical Division R. & F. Agency Commissary Division Coaling Station Mechanical Division R. & F. Agency Supply Department	May 24, 1920. May 29, 1920.

^{*}Naturalized.

### Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Caral Zone," or "The Panama Canal, Washington, D. C." Canal, Washington, D. C. Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

^{*}Nonassembled. Date given for nonassembled examinations is the last day for filing applications and they must be in the hands of the Commission at Washington prior to the hour of closing business on that day.

### Official Circulars.

### Steamboat Inspection Service-Investigation of Marine Accidents.

THE PANAMA CANAL. EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., May 22, 1920.

CIRCULAR No. 644-5:

CIRCULAR NO. 044—5:
Hereafter, in event of an accident or casualty affecting any floating property in Canal waters, which under existing regulations imposes on the Board of Local Inspectors an obligation to investigate, no change in the physical status of the floating property affected by the accident or casualty will be permitted prior to inspection by properly constituted authority, unless such change in status be imperative in order to preserve change in status be imperative in order to preserve life or property.

It will be noted that the above requirement does not in any degree contravene the provisions of paragraph 71 of Circular 644, inasmuch as that paragraph lays down procedure to be followed in the preparation of boilers for periodic inspection.

JAY J. MORROW, Acting Governor

### Night Quarantine Service.

THE PANAMA CANAL, EXECUTIVE OFFICE.

BALBOA HEIGHTS, C. Z., May 24, 1920. CIRCULAR No. 626-5 (superseding Circular Nos. 626-2 and 626-4):

Effective June 1, 1920, night quarantine inspections will be made as follows:

Vessels from ports not subject to a yellow

spections will be made as follows:

1. Vessels from ports not subject to a yellow fever quarantine, passing breakwater at Cristobal harbor before 10 p. m., will be boarded and inspected by the quarantine officer, if quarantine inspection on the night of arrival is desired.

2. Vessels from ports not subject to a yellow fever quarantine, arriving at Balboa, on a line between San Jose Rock and No. 2 Buoy, before 10 p. m., will be boarded and inspected by the quarantine officer provided masters of said vessels desiring pratique on arrival have notified the Pott Captain, Balboa, previous to 4 p. m., on day of arrival.

3. A charge of \$40 for passenger vessels, and \$20 for others, will be made against all vessels availing themselves of quarantine inspection after sunset. When vessels, bound for Balboa, notify the Port Captain of their desire for night boarding, this charge will be made whether or not the ship arrives in time for such boarding.

4. Final disposition of vessels inspected after sunset may be deferred at the discretion of the quarantine officer.

5. Vessels from ports subject to a yellow fever quarantine will be inspected only by daylight.

JAY J. MORROW, Acting Governor

### Changes of Status-Silver Employees.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT

BALBOA HEIGHTS, C. Z., May 26, 1920.

All concerned—Effective at once the use of Form 262 will be restricted to that of a clearance for silver employees leaving the service. All promotions of silver employees must hereafter be shown in the "Remarks column" of the timebooks.

Example—Artisan receiving \$50 during June to be promoted to Artisan at \$52.50 effective July 1, the "Remarks column" in June timebook must read "To artisan \$52.50 effective 7-1-20" and bear the initials of the foreman of the

Circular 666 provides that the effective date of promotions of silver employees shall be the 1st day of the month. All promotions must be indicated, as shown above, on the 16th to 20th

period timebooks for the preceding month prior to sending them to the Bureau of Payrolls on the 29th. To illustrate: for a promotion to be effective July 1 it must be indicated in the "Remarks column" of the June timebook for the period ending June 20. If not so shown it will be discented. be disregarded.

be disregarded.

In a like manner demotions, changes in rating, and transfers will be shown in the "Remarks column" of the timebooks as of the effective date.

Transfers must be shown as per the examples following: "To Gang No. 628 eff. 7/15," and "From Gang No. 1113 eff. 7/15."

All changes pertaining to American citizens on the silver roll and to aliens who are entitled to leave privileges shall be submitted to the Personnel Bureau, Executive Office, in accordance with Circular 666, as heretofore.

H. A. A. SMITH, Auditor, The Panama Canal

Approved: JAY J. MORROW, Acting Governor.

### Allotments for 1921.

THE PANAMA CANAL, Executive Department, Balboa Heights, C. Z., June 7, 1920.

HEADS OF DEPARTMENTS AND DIVISIONS:

1. Appropriations for the support of the Canal for the fiscal year ending June 30, 1921, have been made as follows:

Maintenance and operation..... \$7,531,851.00 Sanitation..... 850,000.00 900,000.00

2. No funds were appropriated for new proj-2. No funds were appropriated for new projects. Requests for allotment of these funds as well as for balances to cover uncompleted work for which allotments were made during the present fiscal year, should be submitted to the Auditor in duplicate by June 14, 1920.

3. Requests for allotments of funds by the Divisions of Maintenance and Operation should be submitted to form \$304.2 a supply of which will

submitted on form 5494-2, a supply of which will be furnished by the Auditor's office. These re-quests should be accompanied by statements showing the amount requested for each special numbered allotment in which a balance will be available June 30, 1920.

CHESTER HARDING, Governor

### Surveying Instruments.

THE PANAMA CANAL. EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., June 2, 1920. CIRCULAR No. 631-7 (superseding Circular No.

631-4):

6.31-4):

1. Stock of instruments—A stock of engineer's transits and levels will be maintained by the Storekeeper, Balboa Heights, under the supervision of the Assistant Engineer of Surveys and all requisitions for additional instruments will be approved by the latter.

2. Surplus or unserviceable instruments—Whenever instruments become surplus or unserviceable, they will be invoiced and shipped with their

ever instruments become surplus or unserviceable, they will be invoiced and shipped with their respective tripods and boxes to the Storekeeper, Balboa Heights. Serviceable instruments will be invoiced at their book value, and unserviceable instruments for physical accounting only.

3. Inspection of instruments—The Assistant Engineer of Surveys will make an inspection and record of each instrument when received; all instruments in serviceable condition will be held instruments and the halpage delivered to the instruments.

in stock and the balance delivered to the instrument repair shop by the storekeeper on memoran-dum receipt. The Mechanical Division will inspect each instrument as received and forward a report to the Assistant Engineer of Surveys, giving the condition, a detailed estimate of the cost of repairs and recommendation as to the disposition.

4. Disposition of unserviceable instruments— Final recommendation as to the disposition of unserviceable instruments will be made by the Assistant Engineer of Surveys to the Surveying Officer, after considering the Mechanical Division report and the needs of the service, together with his own recorded values of the instruments

5. Cost of repairs to instruments—When an instrument is to be repaired, the storekeeper will forward work request charging cost of repairs to the division which turned same in to him, and furnish the head of the division with a copy of the work request which will be his authority to for-ward supplemental invoice covering book value of

ward supplemental invoice covering book value of instrument. The cost of inspection will be billed against the division turning in the instrument. 6. Disposition of scrapped instruments—All Instruments which are scrapped will be invoiced to the Mechanical Division at scrap value and used in the repair of other government instruments.

ments.

CHESTER HARDING, Covernor.

### peration with Police Authorities in Securing Evidence to be Used Before Cooperation Canal Zone Courts.

THE PANAMA CANAL, EXECUTIVE DEPARTMENT, BALBOA HEIGHTS, C. Z., June 4, 1920. HEADS OF DEPARTMENTS AND DIVISIONS:

The following circular, issued under date of October 22, 1915, by the Governor, is reissued for your information and guidance:
"The following letter addressed to this office by the District Attorney, under date of October

21,1915, is quoted for the information and guidance of all concerned:

I request that heads of departments em-I request that heads of departments em-ploying inspectors and others for the purpose of investigating violations of the laws of the Canal Zone be instructed to direct that their inspectors or other investigators secure the cooperation of the police when it appears that a criminal charge is going to be made and that it will be necessary

is going to be made and that it will be necessary to secure proper and legal evidence for the trial.

"When inspectors make and prosecute these cases the police are not especially called upon to cooperate in the matter of securing evidence, and they feel no responsibility in the case. This may result in a loss of necessary evidence to con-

vict.
"The inspectors or others employed to investigate a case which may result in a criminal prose-cution should of course consult with the Dis-trict Attorney as to the kind of charge to be made and as to instructions generally, but the police are accustomed to making these cases and are better advised as to the evidence necessary to convict, and their cooperation should be secured in obtaining evidence."

> CHESTER HARDING. Governor.

### Annual Reports.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. L., June 4, 1920.

HEADS OF DEPARTMENTS AND DIVISIONS:

1. It is desired that annual reports for the fiscal year ending June 30, 1920, be submitted to this office not later than July 20, 1920.

2. The report will be prepared in quadruplicate, on the same size and grade of paper as that used for previous annual reports, namely, 8 by 14 for previous annual reports, namely, 8 by 14 inches. Reportswill be submitted to the Governor by heads of departments and divisions covering the work under their jurisdiction as follows: the Engineer of Maintenance; the Marine Superintendent; the Superintendent of the Mechanical Division; the Chief Quartermaster; the Chief Health Officer; the Auditor; the Executive Secretary; the General Purchasing Officer and

Chief of the Washington office; the Special Attorney; and the District Attorney.

3. Where certain duties or certain parts of the work have been transferred from one department or division to another, or where new departments or divisions have been created, the department or division in which the work or duties are lodged as of June 30, 1920, will submit report for the entire fiscal year, obtaining any necessary data from the official previously in chorner of the work. entire fiscal year, obtaining any necessary data from the official previously in charge of the work,

or from the records maintained by him, if such official has left the service.

4. The official photographer will take appropriate photographs to illustrate the report. Heads of departments or divisions whose reports require of departments or divisions whose reports require illustration should notify this office immediately what photographs are desired, in order that the work may be properly planned. The photographs are intended to show the progress of the work, especially new features, and no photographs will be included if the subject has been sufficiently

covered in a previous report.

5. The Washington office will report any increases in pay and organization of that office, in compliance with the Sundry Civil Act, approved

compliance with the Sundry Civil Act, approved July 19, 1919.

6. No organization charts need be submitted.

7. The size of your report should be limited as much as possible and only statements and tables of general or permanent value be submitted. So far as possible, tables should be comparative, and graphic charts should be used where they will convey the desired information without increased cost.

CHESTER HARDING, Governor.

### Promotion of Silver Employees.

THE PANAMA CANAL. ACCOUNTING DEPARTMENT

Balboa Heights, C. Z., June 2, 1920. HEADS OF DEPARTMENTS AND DIVISIONS:

In connection with circular to "All concerned," dated May 26, 1920, directing that increases in pay for silver employees be shown on the 16th to 20th period timebooks, you are advised that such increases must have the approval of the head of department or division concerned before they will be effective.

In order to facilitate the work of approving these increases, the Chief, Bureau of Payrolls, will send addressograph lists for each payroll to the heads of departments or divisions concerned, showing the metal check numbers, names, occupations, and rates of pay only, on which will be overprints showing proposed occupations and rates.

It is imperative that these lists be either approved or disapproved and returned without delay to the Chief, Bureau of Payrolls.

H. A. A. SMITH, Auditor, The Panama Canal.

Approved: CHESTER HARDING, Governor.

### Misdirected Letters.

Balboa Heights, C. Z., June 8, 1920.

The following insufficiently addressed mail has been received in the office of the Director of Posts, and may be obtained upon request of the addressee: Such request may be made by telephone, calling No. 182, Balboa:

Avila, Jose Baker, Lum L. Bates, Albert Boat, Peter Boomer, George Campbell, George W. Cockrell, James K. Carter, Omar L. Dunham, Fred Ellison, Paris Fish, Mrs. Geo. A. Gano, Albert M. Garrett, Edman Hobbs, Atwood B.

Jordon, Josephine Kocher, Loretta Levins, Leon I. McLaughlin, Frederi Miller, C. J. Percz, Mannel Rogers, George B. Roott, Anna M. Stotarsky, Marks* Walters, Frank Wiggins, Mrs. M. S. Yale, Allen Zink, Raymond McLaughlin, Frederick C.

^{*}Card.

### Eggs for Hatching.

Eggs for hatching are available for sale at the Summit poultry farm from the following breeds: White Plymouth Rocks, White Leghorns, Rhode Island Reds.

Prices for eggs are as follows, f. o. b. Summit: 15 eggs (one setting), \$3.00; 30 eggs. \$5.50; 45 eggs, \$7.50; 100 eggs, \$14.00.

### Shipping Commissioner's Sale.

Shipping Commissioner's Sale.

The Shipping Commissioner, room 305, Administration Building, Balboa Heights, C. Z., will accept written bids up to noon Monday, June 21, 1920, for the purchase of the personal effects of Fred Gordon, deceased American seaman. The property to be sold is listed below, and bids may be made for the entire lot of the effects, or be limited to individual articles. Prospective bidders desiring to examine the effects should apply to the Shipping Commissioner's office on any business day. Bids should be submitted in sealed envelopes, addressed to the Shipping Commissioner, marked "Bid on effects of Fred Gordon, deceased." No advance deposit of money is required. The right is reserved to reject any or all bids:
One suitcase, imitation leather; 2 hats; 2 pairs

right is reserved to reject any or all bids:
One suitcase, imitation leather; 2 hats; 2 pairs
shoes, size 9; 1 belt, leather; 1 pair garters; 2
shirts, size 15½; 1 undershirt; 1 pair socks; 1 pair
slippers; 1 bath towel; 1 hand towel; 1 coat
hanger, 1 pocketknife; 1 souvenir book; "Views
of the Panama Canal;" 1 Everready safety razor
with 10 blades; 1 shaving brush; 1 hand mirror;
7 bars soap; 1 jar shoe cream; 1 small metal box;
1 small wood box; 1 box stationery

1 small wood box; 1 box stationery.

### Sale of Tug "Miraflores."

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10.30 a. m., June 30, 1920, and then opened, for the purchase of the tug Mirafores. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

### Cockerels for Sale.

There are available for sale at the Summit poultry farm 50 single-comb white Leghorn young breeding cockerels at \$3 each, f. o. b. Summit. Prospective purchasers may inspect these cockerels at the farm.

### Additions to Commissary Stock.

Doot and Chas Castion

Boot and Shoe Section.	
Boys' dark russet army Munson, Blucher,	
sizes 2 to 55 pr	\$6.95
sizes 2 to $5\frac{1}{2}$ , pr Women's gun metal pumps, with tongue	<b>\$0.75</b>
and buckle, Louis heel, pr	5.50
Toggings loother with putter street	3.30
Leggings, leather, with puttee straps	0.00
12½", pr	2.00
Leggins, leather, with center strap, 12" and 12½" high, pr	
and 12½" high, pr	3.95
Leggins, pigskin, with center strap, 12"	
and 12½" high, pr	6.15
Dry Goods Section,	
	1 00
Belts, men's, leather, black (16962), ea	1.00
Beits, men's, leather, black (10903), ea	1.00
Belts, men's, leather, black, ea	.62
Belts, men's, leather, black (16963), ea Belts, men's, leather, black, ea Belts, men's, leather, tubular, black, ea	1.70
Belts, men's, leather, black, ea	.62
Belts, men's, leather, black, ea	. 90
Buckles, belt, initialed, sterling silver, ea	1.50
Buckles, belt, initialed, sterling silver,	
front, ea	. 68
Buckles, belt, initialed, sterling silver,	
front, ea	.56
Buckles, belt, initialed, sterling deposit, ea.	.39
Handkerchiefs, men's, linen, H. S., ea	.27
Handkerchiefs, men's, linen, H. S., ea	.29
Handkerchiers, men s, mien, ri. S., ea	.24
Hose, men's, cotton, gray, pr	. 24
Shirts, men's, negligee, coat style, colored	0.05
stripes, assorted, ea	2.05
Soap, Packer's, liquid tar, bot	.43
Grocery Section.	
Biscuits, soda, 4-lb. tin	1.20
	1.20
Candies, Pascall's Sweets, assorted, 7½-oz.	.28
jar	
Milk, sugar of, 1s bot	. 43
Aerated waters and beverages:	4.0
White Rock, split, bot	.10
Grape juice, Welch's, qt. bot	. 55

### Route Service Jitney-Cristobal-Mt. Hope.

The following is the schedule of the official jitney service between the Terminal building at Cristobal and Mount Hope. Cars stop at the office of the Commissary Division each way:

Leave Termi	nal Building.	Leave Mo	unt Hope.
A. M.	P. M.	A. M.	P. M.
8.00	12.30	8.15	12.45
8.30	1.00	8.45	1.15
9.00	1.30	9.15	1,45
9.30	2.00	9.45	2.15
10.00	2.30	10.15	2.45
10.30	3.00	10,45	3.15
	3.30		3.45

### Rates at Hotel Aspinwall, Taboga.

The following are the current rates at the Aspinwall: Employees: Dinner, lodging, and breakfast..... ... \$2.00 Employees.per day.Children under 12 years of ageper day.Servants of employeesper day.Employees for stay of 7 daysper day. 2.75 1.25 1.50 2.00Reduction of 10 per cent for employees on above rates for stay of 30 days. Further reduction of 10 per cent for families of four or more. 3.50 Children of nonemployees.....per day., 1.50 Servants of nonemployees......per day., 1.75 Breakfast
Luncheon
Dinner. 1 00 Meals without room ..... 1 25

### Locations of Patients, and Visiting Hours, at Ancon Hospital.

The following table shows the distribution of patients in the new Ancon Hospital buildings and the visiting hours for the various wards and sections:

Section and Ward.	Present number of beds.	Visiting hours.
Section "A"—White American, male: Ward No. 1 Medical, Eye and Ear Ward No. 2, Medical, Eye and Ear Ward No. 3, Surgical Ward No. 4, Surgical Cells (2).	41	Tuesdays, Thursdays, and Saturdays, 2 to 4.30 p. m. Sundays and holidays, 9.30 to 11 a. m. and 2.30 to 4.30 p. m.
	172	
Section "B": White American, female White foreign, female	23 15	Daily except Sunday 2 to 4.30 p. m.; 6.30 to 8 p. m. Sundays and holidays, 10 to 11 a. m.; 2 to 4.30 p. m. 6.30 to 8 p. m.
Nursery Private Rooms, (40) Cells (2)	46	No visitors permitted. Daily, 9.30 to 11 a. m.; 2 to 4.30 p. m.; 6.30 to 8 p. m.
	102	
Section "C": Ward No. 9, White foreign, male	39	Wednesdays, Sundays, and holidays, 1.30 to 3 p. m.
Ward No. 10, Colored, eye and ear, convalescent medical.  Ward No. 11, Colored Acute surgical.  Ward No. 12, Colored Acute medical.  Ward No. 13, Colored Convalescent surgical.  Ward No. 14, Colored Convalescent surgical.  Cells (6).  Rooms (7).	39 39 39 39 39 6	
100000 117 1111111111111111111111111111	247	
Section "D": Ward No. 15. Ward No. 16. Ward No. 17. Colored children Ward No. 18. White children Ward No. 19. Colored female medi-al Ward No. 20, Colored female surgical Rooms (6) Cells (6)	41 39 32 30 41 34	Wednesdays Sundays, and holidays, 1.30 to 3 p. m. Daily, 9.30 to 10 a. m.; 2 to 4 p. m.  Wednesdays, Sundays, and holidays, 1.30 to 3 p. m.
Isolation:	229	No visitors permitted
Floor No. 1 Floor No. 2 Floor No. 3 Floor No. 3 Floor No. 4	14 29 28 28	Av visione primitied
Total number of beds	99 849	

Emergency passes are issued only by and in the discretion of the section nurse.

### COMMISSARY NOTES.

### Bcoks.

A number of new books may be found in the retail stores, recent shipments including not only fiction but the latest juveniles.

### Milk.

Commissary patrons will be glad to know that Mindi milk is again available for sale over the counter at all commissaries with every indication that this condition will continue for some months to come.

### Commencement Presents.

Delightful as commencement presents for girls are: Electric chafing dishes, bonbon dishes, olive dishes, almond dishes. These came in a shipment just received and distributed to the line stores, which also contained electric coffee percolators, mahogany trays, and other items.

### COMMISSARY NOTES.

### Sweet Potatoes.

The commissary purchasing agent advises that due to the lateness of the season sweet potatoes have no life in them and are not holding up. Shipments have been discontinued until the new crop arrives.

### Alarm Clocks.

In connection with an order for a very popular make of small alarm clock, the Commissary Division has been advised by the suppliers that they were reducing the quantity ordered owing to their over-sold condition and the impossibility of supplying customers in excess of their normal average of past purchases.

### Sugar of Milk.

Sugar of milk has been placed on sale in the various commissaries. A good many patrons are not familiar with the fact that this is an excellent item to add to milk for bottle-fed babies. Before using, however, customers should secure the advice of a physician as to the advisability of its use in each particular case.

### Woolen Suitings.

With a view to informing the trade of the difficulties being encountered in the upkeep of stock of woolen suitings, the following letter from a prominent supplier in the States is quoted: "In regard to your Requisition 8353 for our suiting, we beg to advise that this is now in process in the machines, but that our factory is standing ldle owing to the railroad strike. We have not received a ton of coal nor have we been able to ship a piece of goods for nearly three weeks. At the moment of writing it is hard to say just when the goods will be ready because we don't know when we will get coal to run but if we should start up, say, within the next week the goods should be ready about May 15. We will give the matter special attention as soon as our factory starts up."

### Beef.

Forequarter meat is becoming increasingly popular with commissary customers and it is believed that as patrons learn the various attractive ways in which these cuts can

be served, they will continue to grow in favor.

Flavor is closely associated with the juiciness of meat. The tougher cuts of meat often contain the most flavor, because they are found in the parts of the animal where the muscle is toughened from constant use but which, for this same reason, has a greater blood supply and is necessarily more juicy. If properly cooked, these cuts may be made palatable and delicious and are always less expensive in actual money expended, though they consume more fuel and a longer time to prepare.

Two recipes for the proper preparation of inexpensive cuts from the chuck are printed below:

Chuck steak with onions—Requires 2 pounds chuck steak, 5 or 6 onions, salt, butter, oleomargarine, or other preferred fat. Slice onions in water. Drain thoroughly. Place onions in a shallow saucepan, cover closely and cook over a slow fire for 15 or 20 minutes till tender. Use no water or fat, as the onions contain both moisture and richness. When the onions are done, uncover and brown slightly, if preferred, but they are more digestible without browning. Heat a frying pan smoking hot, and brown the steak quickly on both sides; reduce the heat and turn the meat frequently until it is cooked through. Season the steak and salt the onions. Serve the meat on a platter with onions around it. Add butter or butter substitute if desired.

Chuck roast—Score the fat side of the meat to prevent the skin from curling and crisp each side quickly over the gas flame, or in a hot oven. Reduce the heat, baste the meat with the fat that cooks out and add salt, after it is well browned. Trimmings of meat with bits of tomato and celery, slices of carrots and onions added, cooked in a pint of water will form a good stock. This stock can be cooked with the same heat, but in a separate utensil. The roast may have small potatoes (boiled 10 minutes and skins removed) placed around it, the last half hour; or a Yorkshire pudding can be baked below it (the meat standing on a trivet). An hour and a half is ample time to cook a medium 6-pound roast. Brown gravy is made from the beef fat in the pan and the strained stock, with the addition of flour for thickening.

## THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address The Panama Canal Record, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C.

Entered as second-class matter February 6, 1918, at the Post Office at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., June 16, 1920.

No. 44.

### Passage of Squadron on Practice Cruise.

The battleships Connecticut, New Hampshire, Michigan, Kansas, Minnesota, and South Carolina, forming Battleship Squadron Two of the Atlantic Fleet, Vice-Admiral Hilary A. Jones, commanding, and carrying the midshipmen of the United States Naval Academy on their midsummer practice cruise, arrived at the Canal in the afternoon of June 12, and cleared from Balboa for Honolulu in the morning of June 16. During the stay of the squadron a number of special trains were operated over the Panama Railroad for sightseeing tours to the locks, fortifications, shops, and other points of interest.

Four of the battleships coaled at Cristobal, receiving a total of 5,560 tons; 2 coaled at Balboa, with 2,666 tons. The supply ship Culgoa, which arrived in advance of the battleships and sailed on June 14, took 372 tons of coal at Cristobal and a deck load of 150 tons at Balboa.

### Tariff No. 4.

The Panama Canal has issued Tariff No. 4, a booklet of 33 pages, containing the schedule of rates for supplies and services furnished to shipping and allied interests at the Panama Canal, effective June 1, 1920, and superseding Panama Canal Tariff No. 3 and all supplements thereto.

The following items are included in Tariff No. 4:

Ashes, handling; baggage, allowance; bakery products; basin charge; berth, shifting; bills of health; bills, payment of; cablegrams advising deposits; chandlery, ship; coal; cold storage; collections, agency fee; cordage; cranage; craneboats; cranes; customs fees; deck hands; Diesel oil; dispensaries; divers; dry docks; floating cranes; fruits; fuel oil; garbage; groceries; guards, quarantine and rat; handling lines; holiday and Sunday work; hospital treatment; hotels; ice; launches; laundry; lighters; locks, handling lines in; lubricants; meats; medical supplies; medical treatment; moorings to buoys; oil; overtime; Panama Railroad passenger tariff; pangas; physicians; pilotage; provisions and supplies; pumping oil; quarantine; repairs; ship chandlery and stores; special Sunday and holiday rates; special trains; stevedoring and transferring cargo; storage on docks; supplies; switching; Tivoli Hotel; tolls; tugs and supply boats; vegetables; Washington Hotel; water; whaleboats; wharfage; wrecking cranes; wrecking operations.

Distribution of the Tariff No. 4 has been made to firms on the

Distribution of the Tariff No. 4 has been made to firms on the mailing list. Additional copies may be obtained from The Panama Canal, Balboa Heights, Canal Zone, or Washington, D. C.

### Motor Vessel Equipped in Panama for Passenger Service.

The 90-ton motor vessel formerly known as the Orotina, which under that name was engaged for some time in hauling produce from Costa Rica to Cristobal for the Commissary Division, and was sold in March of this year to Colombian owners, passed through the Canal on June 8, bound from the city of Panama for Cartagena, Colombia, under the name of Cartagena. She had been fitted with cabins and her engines had been overhauled in Panama. The Cartagena is to be used in passenger and cargo-carrying service between Cartagena and points on the Atrato River.

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight June 12, 1920.

THROUGH THE CANAL -ATLANTIC TO PACIFIC.

Canal	Age N-1	Net	5,680	3,520 ,	2,088	2,103 4,863	0.0 4,086	80	3 :	692	4,812	4,592	2,853	2,336	4.391	1,740	1,740	,		.00	
Panama Cana		Gross	8,345	4,777	4,437	6,731	5,726	130	0 .	1,213	6,587	6,361	4,731	4,782	6,438	2,823	2,823	2,895		: 60	
<u> </u>	Tons		9,867	3,700	2,000	7,516		9,998	2	921	6,940	4,800	1,005	4,305	8.800		3,670	3,199			
	Cargo		General	SugarCeneral and coke	Crude oil	General		Coal	Collegation	General	General and steel	General		General	Crude petroleum		Coal	mdse	÷		
	For—		Yokohama	Melbourne	Arica		2 -	Honolulu	San Diego	Champerico	Yokohama	San Francisco.	Callao	Valparaiso	Pisagna	Iquique	I quique	San Francisco.	Honelilu	Honolulu	
	From-		New York	Matanzas	Tampieo.	New York	New York	Cristobal	St. Thomas.	Cristobal	New York	Antwerp	Cristobal	Liverpool	Tampieo	New York	Rollimoro	Baltimore	Philadelphia	Philadelphia	
3			23.0 23.0	23.1	24.0	22.2		30.0	2.4	14.0	23.9	21.7	19.5	23.6		23.6	94.0	19.0	27.6	27.0	
	Beam		56.0	52.0 49.0	49.0	54.0	51.0	22.0	51.0	43.0	54.0	25.00	46.0	58.0	55.0	44.0	49.0 54.0	44.0	76.0	0.0%	
	Length Beam		425.0	345.0	360.0	409.6	360.0	2000°C	455.0	185.0	410.0	380.9	360.0	390.0	427.0	248.0	100 0	289.0	450.0	0.004	
	Line		Osaka Shosen Co Pacific Steam Navigation Co	Austrahan Government	International Petroleum Co	United States Shipping Board	W. R. Grace & Co.	United States Navy.  Pacific Metals Cornoration	United States Navy	The Panama Canal	United States Shipping Board	Harrison Steamship Line.	Peruvian Line	Pacific Steam Navigation Co	Standard Oil Co.	United States Shipping Board	United States Shipping Board	Pacific Mail Steamship Co	United States Navy	E. P. Wheeler	(c) Power schooner. (d) Transport. (e) Tug. (f) Battleship. (g) Launch.
	Nationality				British			American British.		American		American		British			American	4.	American	American	port. (e) Tug
Cleared for sea	moH		18.15	22.50	4 20 00	17 15	15.08	13.20	13.49	5	15.35	23.55	20.30	15.32	10.05	14.47	15.24	20.45	:		) Tran
	V&C		522	000	2 40 8 4 8 6	33	35.00	18 10	30 11	08	34 10	52 10	17 11	33	16 12	19 12	29 12	46 12	40	533	эг. (d
Completed	Day	-	6 16.16 7 16.52	7 19.	s 15.	8 E		9 15.	9 15.	9 12.	10 14	0 16.	2:	14.	11 16.	2 2 2 2	1 21			116	choone
	TuoH	t	6.10	0.10	7.17	1.18	6.15	6.47	8.50	9.25	6.16	7.07	6.14	6.23	7.04	2 15	6.13	23	000	3.5	ower a
Entered Canal	Day	1	91-1	-1-	00 00	00 C	c. c	n 01	с. c	0.00	10	22	=:	==	Ξ	==	121	22	25	12	
Arrived at port	woH	١.	6.05	÷ 6;	15	22	10	27	∞ <u>-</u>	16	15	9	15	12.27	4.50	5,45	19, 42	7.00	19.25	5.45	Jollier.
Arr	Day	[	999	0 [-]	~ ∞	တတ	00 0		0 2	000	000	10	45	22	===	==	101	==	215	200	(9)
	Ship		::,	: :	Mina Brea Eastern Pilot		:		Mercy (d)		West Campgaw	: :		Sorata	Caddo	Lake Fibre	Greenland	Point Adams	Connestion (f)	Hope (g)	(a) Yacht. (b) Collier.

PHROUGH THE CANAL-PACIFIC TO ATLANTIC.

442											
3,4	3,491 4,440 6,682 1,138 4,220 4,325 706	8,121 7,606 1,023 1,622 2,017 4,901 1,806	95 2,537 3,667 622				oana. Socas. ti. maica. iti.				
	5,520 6,189 9,336 1,900 5,572 5,957	8,40010,503 4,74010,503 1,001 1,582 3,108 2,505 5,500 7,285 5,500 7,285 5,965 6,573	129 3,639 5,206 1,187			For-	New York and Habana. Colorado Bar. New Orleans New Orleans and Bocas. New York and Haiti. N. Y., Col., and Jamaica. Colon. New York and Eaiti. N. Y., Limon, and Habana. Jucato, Cuba.				
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General.	Rice Nitrate. C. S., ge General. Copper b General.	C. S., general C. S., general General Nitrate Ballast General Nitrate of soda.	Ballast Fuel oil Nitrate of soda General General				United Fruit Co. United States Shipping Board. Leyland Line. Leyland Line. Panama Railroad Steamship Line. United Fruit Co. W. V. N. Powellson. Panama Railroad Steamship Line. United Fruit Co. United Fruit Co. United States Shipping Board.			Kabushiki Kaisha Kawasaki	Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.
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New York.	Habana. Baltimore London Habana New York New York		Cartagena Alexandria Cristobal (i). Cristobal Charleston		DEPARTURES.		United Fruit Co. United States Shipping Board. Leyland Line United Fruit Co. Panama Railroad Steamship L. United Fruit Co. W. V. N. Powellson. W. V. N. Powellson Panama Railroad Steamship I. United Fruit Co. United Fruit Co. United Struit Co. United States Shipping Board.		*OEPARTURES.	shiki Ka	hours gre
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7 [24.00] Chilean	12.38 Japanese 11.36 Japanese 17.30 British 2.30 Danish 18.28 American 7.26 British	13.10 American. 16.11 10.17.37 British. 17.18 11 6.21 British. 19.05 11 1.24 American. 19.35 10.22 4.6 American. 20.42 11 10.0 American. 14.24 11 19.42 American. 15.33 13 11.05 British.	5.35 Colombian. 2.25 British. 11.05 German. Chilean. 21.13 American. British.		"ARRIVALS.	_			*ARRIVALS.		ships passing through the Canal.
7 [21.25] 7 [24.00 Chilean	7 22.10 8 12.38 Japanese 8 17.43 8 19.50 Japanese 8 18.45 8 21.30 British 9 15.51 0 2.30 Norwegian 9 16.57 9 18.28 America 9 18.30 13 7.26 British	10 13.10 American. 10 16.11 10 17.37 British. 10 16.12 British. 10 19.05 11 1.24 American. 10 19.35 10 22.445 American. 10 29.35 11 10 042 American. 11 14.24 11 19.42 American.	11 18.00 12 5.35 Colombian. 11 18.28 12 2.25 British. 12 12.43 13 11.05 German. 12 14.08 Chinan. 12 18.30 12 21.13 American. 12 18.45 British.	. (j) 1,742.065 tons.	*ARRIVALS,	_	United Fruit Co. United States Shipping Board. United States Shipping Board. Royal Mail Steam Packet Co. United Fruit Co. United Fruit Co. W. V. N. Powellson. United Fruit Co.		*ARRIVALS.	Rolph Coal and Navigation Co	er than ships passing through the Canal.
7 11.10 7 21.25 7 24.00 Chilean	7 12.17 7 22.10 8 12.38 Japanese 8 7.58 8 17.43 8 19.50 Japanese 8 10.12 8 18.45 8 13.30 Britsh. 9 6.37 9 15.10 9 17.30 Notwegian. 9 8.43 9 16.57 9 18.28 American 9 10.54 9 18.30 13 7.26 British	10 6.39 10 13.10 American. 10 8.00 10 16.11 10 17.37 British. 10 9.07 10 16.12 British. 10 10.02 10 19.05 11 1.24 American. 10 12.00 10 19.35 10 22.46 American. 10 12.00 10 19.35 10 22.46 American. 11 6.41 11 14.24 11 19.42 American. 11 6.53 11 15.33 13 11.05 British.	11 9.55 11 18.00 12 5.35 Colombian. 11 0.56 11 18.28 12 2.25 British. 11 10.7 12 12 43 13 11.05 Gridean. 12 0.27 12 14.08 Chiletan. 12 11.65 12 18.30 12 21.13 American. 12 11.55 12 18.45 British.	. (j) 1,742.065 tons.	"ARRIVALS.	Line.	United Fruit Co. United States Shipping Board. United States Shipping Board. Royal Mail Steam Packet Co. United Fruit Co. United Fruit Co. W. V. N. Powellson. United Fruit Co.		*ARRIVALS.	Rolph Coal and Navigation Co	*Other than ships passing through the Canal.
[15.00] 7 [11.10] 7 [21.25] 7 [24.00] Chilean	12 17 7 22 10 8 12.38 Japanese 7 58 8 17.43 8 19.50 Japanese 10 12 8 18.45 8 21.30 British. 6.37 9 15.10 9 17.30 Norwegian. 8.49 9 17.55 10 2.30 Danish 8.43 9 16.57 9 18.28 American 10.54 9 18.30 13 7.26 British	15.29   10   6.39   10   13.10   American.     21.00   10   8.20   10   16.11   10   17.37   British     2.30   10   8.27   10   17.18   11   6.21   British     5.30   10   9.07   10   16.12   British     5.30   10   9.07   10   16.12   American.     5.31   10   10.18   10   18.28   11   12.4   American.     6.30   10.18   10   18.28   10   22.40   American.     6.30   10.20   10   19.35   10   22.40   American.     6.30   10.41   11   4.24   11   19.42   American.     6.30   10.44   11   14.24   11   19.42   American.     6.31   10.63   11   15.33   13   11.05   British     6.32   11   15.33   13   11.05   British     7.33   7.34   7.34   7.34   7.34   7.34   7.34     7.34   7.34   7.34   7.34   7.34   7.34   7.34     7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35   7.35	14.00 11 9.55 11 18.00 12 5.35 Colombian. 9.01 19.55 11 18.25 12 2.25 British. 13.50 11 10.7 12 12 43 13 11.05 German. 15.00 12 6.27 12 14.08. Chilean. 16.30 12 10.57 12 18.30 12 21.13 American.	(i) For orders. (j) 1,742.065 tons.	*ARRIVALS,	_	United Fruit Co. United States Shipping Board. United States Shipping Board. Royal Mail Steam Packet Co. United Fruit Co. United Fruit Co. W. V. N. Powellson. United Fruit Co.		*ARRIYALS.	Rolph Coal and Navigation Co	*Other than ships passing through the Canal.
6 15.00 7 11.10 7 21.25 7 24.00 Chilean	nn 7 10 30 7 12.17 7 22.10 8 12.38 Japanese 8 6.30 8 7.55 8 17.43 8 19.50 Japanese 13. 7 11.00 9 6.37 9 15.10 9 17.30 Norwegian 8 23.80 9 8.13 9 17.55 10 2.30 Danish 9 10.00 9 10.54 9 18.30 13 7.26 British	9 15.29 10 6.39 10 16.11 10 17.37 British 9 19.00 10 8.27 10 17.18 11 6.21 British 10 2.30 10 9.07 10 16.12 British 9 16.00 10 10.02 10 19.05 11 1.24 American 10 10.00 10 12.00 10 19.35 10 22.40 American 8 12.28 10 12.55 10 20.32 11 10.04 American 10 14.30 11 6.41 11 14.24 11 19.42 American 10 14.30 11 6.41 11 14.24 11 19.42 American 10 18.15 11 9.58 11 15.33 13 11.05 British	1   9   9   1   9   55   11   18   10   12   5   5   5   5   5   5   5   5   5	(i) For orders. (j) 1,742.065 tons.	"ARRIVALS,	Line.	Calamares. United Fruit Co. Capo Fear. United States Shipping Board. Larne. Royal Mail Steam Packet Co. Parismina United Fruit Co. Lake Frances. United States Shipping Board. Santa Marta. United States Shipping Board. Arabia. W. Y. N. Powelson. Pastores. United Fruit Co.		*ARRIVALS.	Relief (e) Rolph Coal and Navigation Co Acapulco (k) Ocean Shipping Agency	
6 15.00 7 11.10 7 21.25 7 24.00 Chilean	10 30 7 12.17 7 22.10 8 12.38 Japanese 30 8 7 7.58 8 17.43 8 19.50 Japanese 9.00 8 110.12 8 18.45 8 21.30 British 11.00 9 6.37 9 15.10 9 17.30 Norwegian. 23.30 9 8.19 9 17.55 10 2.80 Danish 10.00 9 10.54 9 18.30 13 7.26 British	9 15.29 10 6.39 10 16.11 10 17.37 British 9 19.00 10 8.27 10 17.18 11 6.21 British 10 2.30 10 9.07 10 16.12 British 9 16.00 10 10.02 10 19.05 11 1.24 American 10 10.00 10 12.00 10 19.35 10 22.40 American 8 12.28 10 12.55 10 20.32 11 10.04 American 10 14.30 11 6.41 11 14.24 11 19.42 American 10 14.30 11 6.41 11 14.24 11 19.42 American 10 18.15 11 9.58 11 15.33 13 11.05 British	14.00 11 9.55 11 18.00 12 5.35 Colombian. 9.01 19.55 11 18.25 12 2.25 British. 13.50 11 10.7 12 12 43 13 11.05 German. 15.00 12 6.27 12 14.08. Chilean. 16.30 12 10.57 12 18.30 12 21.13 American.	. (j) 1,742.065 tons.	"ARRIVALS,	Line.	United Fruit Co. United States Shipping Board. United States Shipping Board. Royal Mail Steam Packet Co. United Fruit Co. United Fruit Co. W. V. N. Powellson. United Fruit Co.		*ARRIVALS.	Rolph Coal and Navigation Co	(k) Barge. *Other than ships passing through the Canal.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending June 12, 1920.

				Carg	0—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Calamares. Parismina Santa Marta Acajutla. Median Ccauca Panama Point Adams Aylesbury. Mantaro Gen, H. F. Hodges. Pastores, Jamaica Palena	United Fruit Co United Fruit Co United Fruit Co Pacific Steam Navigation Co Leyland Line Pacific Steam Navigation Co Panama Railroad Steamship Line Pacific Mail Steamship Co Royal Mail Steam Packet Co Peruvian Line Panama Railroad Steamship Line United Fruit Co Pacific Steam Navigation Co South American Steamship Co	June 8. June 9. June 10. June 11. June 11. June 12. June 12. June 12.	June 10  June 11  June 11	399 2 100 4 217 94 	ii

## Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending June 12, 1920.

				Cargo—			
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.		
Baja California. West Katan. Laura C. Hall. Acajutla. Cauca. Point Adams.		June 9	June 9 June 10	76 7	Tons. 53		

### Resumption of Luckenbach Coastwise Service.

The Luckenbach Steamship Company, has resumed United States coastwise service, advance notice of which was published in The Panama Canal Record of May 5. The first ship through the Canal in the new service was the *Eastern Pilot* of Seattle, a Shipping Board vessel operated by the Luckenbach Company. She made the transit of the Canal on June 8, bound from New York direct to Los Angeles, with 2,200 tons of general cargo. The *Eastern Pilot* is a ship of 1,924 net tons, 305 feet in length by 44 feet beam.

### "Lake Gatun" and "Lake Miraflores."

Lake Gatun and Lake Miraflores are the names which two vessels of the United States Shipping Board are to bear, in honor of Gatun and Miraflores lakes of the Panama Canal. This information is contained in a letter from the Chairman of the Shipping Board to the Governor, which further states that the vessels are to be launched in August or September of this year. They are under construction at the plant of the Saginaw Shipbuilding Company, Saginaw, Mich.

### Production of Iron Rods and Bars at Balboa Shops.

In February of this year a reclaiming roll was placed in operation at Balboa shops, principally for the rerolling of scrap steel and iron into rods and bars. The installation has proven very satisfactory and is considered an important addition to the equipment of the plant.

The rolls will take scrap material up to  $2\frac{1}{2}$  inches, round or square, and produce round rods from  $\frac{3}{8}$  inch to  $1\frac{1}{2}$  inches diameter or  $\frac{1}{4}$  inch by 1 inch to 1 inch by 3 inch flat bars. This size and type of machine is in extensive use by railroads in the United States. The actual pro-

duction secured here up to the present is as follows:  $\frac{5}{8}$ -inch rod,  $3\frac{1}{4}$ tons per day;  $\frac{3}{4}$ -inch rod, 6 tons per day;  $\frac{7}{8}$ -inch rod,  $6\frac{1}{2}$  tons per day; and  $1\frac{1}{4}$ -inch rod, 7 to  $8\frac{1}{4}$  tons per day.

A number of rods have been turned out for reinforcing the 55,000barrel concrete oil tank being constructed at Cristobal. These are  $1\frac{1}{4}$  inches in diameter, and some of them are over 60 feet in length.

The machine is driven by an alternating current motor of 100 horsepower. The metal to be rerolled is heated in an oil-fired furnace containing two chambers, each 8 by 4 feet. A single furnace of 16-foot length is used for rolling rods of extra length. A grating, constructed of old railroad rails, is used as a cooling bed for the rods produced.

An overhead trolley handles the heavier scrap.

At present the scrap is sorted in the main scrap yard of The Panama Canal located at Mount Hope and only scrap suitable for rerolling is sent to the mill. Arrangements are under way for securing a shear which will be located in the reclaiming building, or near it, so that a certain amount of scrap may be sorted and cut to the necessary length at the rolls. The machine is fitted with a splitting attachment for trimming down pieces of plate and other materials which are too wide to enter the roll. A special splitting attachment has been devised at the shops for splitting railroad rails and they are successfully rerolling rails after they have been split into three pieces.

A number of laboratory tests have been made to determine the physical characteristics of the rerolled rods. They have been found very good and almost equal to new rods. As there is a large demand for rods, both round and flat, on the Isthmus, it is expected to be able to dispose of the output of the mill locally. There is a large accumulation of scrap on the Isthmus but it is being rapidly disposed of by sale to junk dealers. That part of the scrap suitable for the rerolling mill

is being reserved.

It has also been found a great advantage to have the mill on the Isthmus on account of being able to produce rods of any size urgently required, on short notice.

### Baking.

The Canal bakery at Cristobal on May 28 recorded the largest output in several months, baking 41,550 loaves-13,500 were for the transport Mount Vernon and 28,050 were to meet the needs of other shipping and the demand on the Canal Zone. Baking 41,550 loaves of bread requires the use of approximately 131 barrels flour, 1,840 gallons water, and 460 pounds of yeast. As packed in the usual bread crate, 20 by 20 by 33 inches in size, this production would fill 416 crates.

### Rates, Hotel Aspinwall, Taboga.

Effective June 20, 1920, the following rates will be placed into effect at the Hotel Aspinwall, Taboga. For reservations address, Manager, Hotel Aspinwall, Taboga, via Balboa Post Office. The rates below include the commutation rates and reduced rates for children designed for the accommodation of Canal employees who have no Government quarters.

Nonemployees, board and lodging—Adults, \$3.50 per day; adults, week or month's stay, \$2.50 per day; children under 2 years of age, free; children, 2 years to 5 years, inclusive. \$1 per day; children, 2 years to 5 years, week or month's stay, 80 cents per day; children, over 5 years, under 12 years, \$1.75 per day; children, over 5 years, under 12 years, week or month's stay, \$1.25 per day; 2 per day; adults, month's stay, \$5.4 per month; children under 2 years, free; children, 2 years to 5 years, inclusive, 75 cents per day; children, 2 years to 5 years, inclusive, 75 cents per day; children, 2 years to 5 years, week or month's stay, \$0 cents per day; children, 6 years and under 12 years, week or month's stay, \$1 per day. For employee's family of 4 paying members or more, a reduction of 10 per cent is allowed, not including servants.

Servants, board and lodging—For nonemployees, \$1.50 per day; for employees, \$1.25 per day.

Commutation rate, lodging, breakfast, and dinner, including launch transportation—Nonemployees, \$17.50 per week; nonemployees, \$70 per month; employees, \$12.50 per week; employees, \$50 per

Launch rates, nonemployees--Adults, 65 cents each way; children, 6 years and under 12 years, 45 cents each way. Employees-Adults, 40 cents each way; children, 6 years and under 12 years, 30 cents each way.

Meals, without room-Breakfast, 75 cents; luncheon, \$1.25; dinner, \$1.25.

### LAUNCH SCHEDULE.

Effective June 20, 1920, the following launch service will be established employing the launch Coco Solo, which was recently overhauled thoroughly in the Canal shops and subjected to a series of inclination tests to determine her stability:

Week days—Leave Taboga, 6.30 a. m.; leave Balboa, 5 p. m. Salurdays and days preceding holidays—Leave Taboga, 6.30 a. m.; leave Balboa, 10 a. m.; leave Taboga, 12.30 p. m.; leave Balboa, 5 p. m. Sundays—Leave Taboga, 6.30 a. m.; leave, Balboa 10 a. m.; leave Taboga, 6.30 p. m.; leave Balboa, 5 p. m.

### Renewal of Bicycle Licenses.

Holders of bicycle licenses in the Canal Zone may now have them renewed for the fiscal year beginning July 1, 1920. New licenses will not be issued until July 1 to persons who are not licensees already, but present holders of licenses may secure renewals now. Applications stating the make and number of the bicycle should be addressed to the Chief, Division of Civil Affairs, Balboa Heights, and check or money order for the fee of \$1 should be made payable to the Collector, The Panama Canal. It will assist in the rapid renewal of licenses if the holders will give the number of the present license when making application.

As official bicycle licenses are issued for an indefinite period of time, the tags with black letters on a white background will continue to be valid.

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service. Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Board of Civil Service Examiners, Balboa Heights (telephone 286):

Metallurgist (male and female); \$3,600 to \$4,000 a year; July 13, 1920; form 2118; age, under 50 years.* Tariff clerk (male and female); \$1,620 a year; July 9 and August 20, 1920; form 1312; age, 21 years

but not 50 years. Junior physiologist (male and female); \$2,000 a year; No. 350; July 6, 1920; form 1312; age, 21 years and over.*

Plant engineer (male and female); \$5,000 a year; No. 363; July 15, 1920; form 1312; age, under years.* Laboratory aid in agricultural technology (male and female); \$840 a year; No. 348; July 7, 1920;

form 1312. Superintendent (director). Bureau of Fisheries (male and female); \$1,800 a year; No. 362; July 1, 1920; form 1312; age, within reasonable age limits.*

Assistant explosives engineer (male and female); \$1,620 to \$2,400 a year; July 20, 1920; form 2118; age, 21 years but not 45 years.*

Computor, Coast and Geodetic Survey (male and female); \$1,400 a year; No. 408 (amended); July 21, 22, 1920.*

Example of claims, Ordnance Department at Large (male and female); \$1,700 a year; No. 408 (amended);

Examiner of claims, Ordnance Department at Large (male and female); \$1,700 to \$5,000 a year;

July 20, 1920.* Highway bridge engineer (male and female); \$2,100 to \$2,700 a year; junior highway bridge engineer (male and female); \$1,320 to \$1,920 a year; July 13, 1920; form 1312; age, highway bridge engineer, not less than 35 years, junior highway bridge engineer, not less than 30 years.*

Research engineer (male and female); \$3,000 to \$3,600 a year; July 20, 1920; form 2118; age, not less than 45 years.*

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications and they must be in the hands of the Commission at Washington prior to the hour of closing business on that

### Postal and Cable Addresses of The Panama Canal.

The postal address is, Canal, Washington, D. C." "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama

Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

### Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad The estates of the following deceased employees of the Panama Canal or the Panama Railroad Conpany are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings, or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possble. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Joseph Felix Stauley Jonas Michael Kahn Joshua Lovell Riley Murithun alias	32271 858	Jamaica France	Colon. Colon. Ancon. Colon.	Supply Department Supply Department Supply Department Panama Railroad	June 5, 1920. June 4, 1920.
Obrin Martin Stephanie Pradier Albert Tull	33119	Gua leloupe	Panama	Panama Railroad Supply Department Docks	June 3, 1920. June 1, 1920. June 5, 1920.

### Official Circulars.

### Carrying and Keeping of Arms.

THE PANAMA CANAL, EXECUTIVE OFFICE

BALBOA HEIGHTS, C. Z., June 1, 1920.

CIRCULAR No. 645-2:

By virtue of the authority vested in me by the Executive Order of March 6, 1920, published as Panama Canal cirular No. 601-108, relating to the keeping and carrying of firearms in the Canal Zone, I hereby establish the following regulations to govern the issuance of permits under said Order and to prescribe the areas in which hunting may be permitted

(a) Blank applications for permits to have or carry firearms will be furnished to applicants on application to Headquarters, Police and Fire Division, or any Canal Zone Police Station.

(b) Applications for hunting permits must be accompanied by the prescribed fee of one dollar (\$1), which will be returned to the applicant in the

event his application is disapproved.

(c) Applications for permits to be issued to watchmen or overseers of plantations, factories, warehouses, docks or piers must be endorsed by the head of the department in which the applicant is awarehoused. cant is employed.

(d) Applications by members of gun and pistol (a) Applications by members of gun and pistol clubs for permits to carry firearms going to and from target range must be certified by the secretary of the club of which applicant is a member.

(e) The Executive Secretary has designated the Chief of Police and Fire Division to issue permits under the said Executive Order on such applications.

tions as are approved by the Executive Secretary.

(f) Permits will be issued by the Chief of the Police and Fire Division in the form of a small ronce and Fire Division in the form of a small card, numbered serially as issued, each class of permit having a separate series of numbers as well as a distinctive color. Permits must be in possession of all persons carrying arms and shall be exhibited on request of any police officer.

(g) All permits issued hereunder shall be valid

only during the fiscal year in which issued and may be renewed by the holder thereof returning his permit to the Executive Secretary, with written requestfor renewal of the permit for the succeeding fiscal year. The application for renewal of hunting permits must be accompanied by the prescribed fee.

(h) Permits which have been lost or destroyed may be renewed for the remainder of the fiscal year upon affidavit of such loss or destruction, and year upon anidavit of sections so destruction, and in case of hunting permits the payment of the regular fee of one-dollar (S1) shall also be required.

(i) Hunting permits will allow the carrying of rifles and shotguns and do not authorize the carrying of revolvers or pistols.

AREAS IN WHICH HUNTING IS ALLOWED.

(j) Hunting with rifles or shotguns is permitted in that part of the Canal Zone north from the Carabali River, on the west side of the Canal, to the Atlantic Ocean, excluding therefrom the

entire area of Gatun Dam and the area contiguous

thereto north, west, and south of the western end of Gatun Dam for a distance of 1 mile.

(k) Hunting with shotguns only is permitted in areas outside of townsites or within one hundred (100) yards of metalled roads on the west side of the Canal, from the Pacific Ocean to the Carabali River, except in the watershed reservations of the Canalach and Rise Grande reservations of the

Canacho and Rio Grande reservoirs.

(l) Hunting with shotguns is permitted in the areas outside of townsites or within one hundred (100) yards of metalled roads on the east side of the Canal and the Panama Railroad, north from the southern boundary of the Canal Zone to the south arm or branch of Gatun River arm of Gatun

These regulations shall be in effect in the Canal

Zone from and after July 1, 1920.

CHESTER HARDING, Governor.

### Coupon Books for New Employees.

THE PANAMA CANAL, EXECUTIVE OFFICE.

Balboa Heights, C. Z., June 10, 1920. CIRCULAR No. 663-9:

1. When a new employee wishes to purchase coupon books before the regular authority card, form 5513, is received, a card, form 5753, may be issued by the head of the department or division or such foreman or chief clerk as may be designed. nated by him, authorizing the purchase of coupon books in amount not to exceed \$15, if such card is presented within 3 days from date of issue. The card will be lifted by sales clerk at time of sale.

2. These cards must be signed by the new employee and by the official issuing, who will also fill in date of issue.

3. A supply of cards, form 5753, may be secured from the Bureau of Payrolls, Balboa Heights,

upon proper request.

4. New employees arriving from the United States may be issued coupon books to the value of \$10, and if any employee to whom a book is issued fails to earn an amount sufficient to equal the value of the book or books, the unearned value will be charged to recruiting.

CHESTER HARDING, Governor.

### Preservation of Finish on Walls.

THE PANAMA CANAL, SUPPLY DEPARTMENT

BALBOA HEIGHTS, C. Z., June 7, 1920.

Memorandum for all concerned—The walls of the Administration Building are being painted. When painting is completed, it is requested that employees refrain from putting tacks, pins, etc.. in the walls for the purpose of hanging calendars

and pictures.

If official printed matter is needed on the walls in offices, for quick reference, please call on the custodian to have same placed.

R. K. Morris, Chief Quartermaster.

### Shipment of Uncrated Trunks on Panama Railroad Steamship Line.

PANAMA RAILROAD COMPANY, AND

PANAMA RAILROAD STEAMSHIP LINE, OFFICE OF SUPERINTENDENT, BALBOA HEIGHTS, C. Z., June 10, 1920.

CIRCULAR No. 690:

To all concerned—Uncrated trunks will be accepted for shipment on Panama Railroad steamers only when destination is New York. Trunks for points beyond must be crated or boxed. Uncrated trunks will only be accepted when owners release the Panama Railroad from all claims for damage, breakage, or pilferage.

S. W. HEALD, Superintendent.

### Appointments.

THE PANAMA CANAL, CATTLE INDUSTRY DIVISION, CRISTOBAL, C. Z., June 2, 1920.

CIRCULAR No. 140:

To all concerned—Effective June 1, 1920, Mr. J. S. McCarthy, accountant and cashier in this office, is promoted to the position of assistant to the superintendent of the Cattle Industry Division, vice Mr. E. M. Reinhold, transferred. Effective the same date Mr. G. A. Dryden, clerk, is promoted to the position of accountant and cashier, vice Mr. J. S. McCarthy, promoted.

W. B. BROWN, Superintendent.

Approved:

R. K. Morris, Chief Quartermaster.

### Sale of Roofing Paper.

Sale of Rooming Paper.

Sealed bids will be received in the office of the Chief Quartermaster, Balboa Heights, C. Z., up to 10.30 a. m., June 25, 1920, and then opened for the purchase of about 470 rolls of roofing paper (containing about 216 square feet each), which was rejected by The Panama Canal. About 294 rolls are at section "E." Balboa storehouse, and about 176 rolls at Cristobal storehouse. Form of proposal may be had upon application at the office of the Chief Quartermaster, or at Balboa and Cristobal storehouses. The Panama Canal reserves the right to reject any or all bids.

### Eggs for Hatching.

Eggs for hatching are available for sale at the Summit poultry farm from the following breeds: White Plymouth Rocks, White Leghorns, Rhode Island Reds.

Prices for eggs are as follows, f. o. b. Summit: 15 eggs (one setting), \$3.00; 30 eggs, \$5.50; 45 eggs, \$7.50; 100 eggs, \$14.00.

### Shipping Commissioner's Sale.

The Shipping Commissioner, room 305, Administration Building, Balboa Heights, C. Z., will accept written bids up to noon Monday, June 21, 1920, for the purchase of the personal effects of Fred Gordon, deceased American seaman. The property to be sold is listed below, and bids may be made for the entire lot of the effects, or be limited to individual articles. Prospective bidders desiring to examine the effects should apply to the Shipping Commissioner's office on any business day. Bids should be submitted in sealed envelopes, addressed to the Shipping Commissioner, marked "Bid on effects of Fred Gordon, deceased." No advance deposit of money is required. The No advance deposit of money is required. right is reserved to reject any or all bids:

right is reserved to reject any or all bids:
One suitcase, imitation leather; 2 hats; 2 pairs
shoes, size 9; 1 belt, leather; 1 pair garters; 2
shirts, size 15½; 1 undershirt; 1 pair socks; 1 pair
slippers; 1 bath towel; 1 hand towel; 1 coat
hanger; 1 pocketknife; 1 souvenir book; "Views
of the Panama Canal;" 1 Everready safety razor
with 10 blades; 1 shaving brush; 1 hand mirror;
7 bars soap; 1 jar shoe cream; 1 small metal box;
1 small wood box; 1 box stationery.

### Sale of Tug "Miraflores."

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10.30 a. m., June 30, 1920, and then opened, for the purchase of the tug Miraflores. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

### Cockerels for Sale.

There are available for sale at the Summit poultry farm 50 single-comb white Leghorn young breeding cockerels at \$3 each, 1. o. b. Summit. Prospective purchasers may inspect these cockerels at the farm.

### COMMISSARY NOTES.

### Books.

A number of new books may be found in the retail stores, recent shipments including not only fiction but the latest juveniles.

### Milk.

Commissary patrons will be glad to know that Mindi milk is again available for sale over the counter at all commissaries with every indication that this condition will continue for some months to come.

### Satin Pumps.

Occasionally claims are received in connection with satin pumps sold in the commissaries and when such claims are based on defective fabric and no other fault of manufacture, it is necessary to decline them. The durability of satin can not be guaranteed in this climate and slippers of this fabric were stocked merely to satisfy a demand from the trade, with the understanding that all sales would be made at customer's risk except in case of defects in workmanship or material, other than the satin fabric.

## THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address The Panama Canal Record, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C. Entered as second-class matter February 6, 1918, at the Post Office at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., June 23, 1920.

No. 45.

### Repairing the Propeller of a Destroyer.

An interesting repair was made on the starboard propeller of the destroyer *Thornton*, in the 1,000-foot dry dock at Balboa in May. The propeller had been damaged by touching one of the banks while in transit through the Canal. The ends of the blades had been turned back through half of a circle. The blades were straightened and brought back to their original surface. Cracks were welded, the broken tips of two blades were repaired by burning (casting new metal into a mold at the end of the tips in such a manner that it fused with the old metal), and the propeller was balanced and replaced.

Inasmuch as this is a high-speed turbine propeller, transmitting heavy horsepower and attached to a light hull, lack of balance or truth of surface in the repaired propeller would have set up a serious vibration. After the destroyer had gone to sea the commander telegraphed that the propeller was performing very satisfactorily, and congratulated The Panama Canal on "a difficult repair well carried out."

### Modifying Yellow Fever Quarantine Requirements.

The quarantine service of The Panama Canal is making efforts to minimize the delays to ships and passengers which are involved in the protective measures necessary to prevent the entrance of quarantinable diseases. The Chief Quarantine Officer has returned from an inspection of the ports on the west coast of Central America, as far north as San Jose de Guatemala, against which quarantine has been maintained for yellow fever, and will leave shortly for the west coast of South America, inspecting the ports against which quarantine is maintained for yellow fever and bubonic plague.

In these inspections the effort is directed toward gaining accurate knowledge of conditions, establishing first-hand, personal relations with the authorities, and stimulating preventive measures. In consequence, the restrictions at the Canal can be modified to correspond with actual conditions and necessities. At the same time it has been possible in some cases to modify the requirements for the treatment of ships in those ports, eliminating protective practices which are now seen to be no longer necessary. The requirements by the Canal are being made adaptable, while adhering to primary principles, so that no unnecessary hardships may be imposed and improvements may be promptly reflected in a lessening of restrictions.

Among the changes which have been made as result of the recent visit to Central American ports are the removal of the requirement that vessels at La Union leave the wharf by 5 p. m., or be subject to fumigation at Balboa; and the removal of the requirement that vessels at Corinto anchor in the stream at night and be fumigated before sailing. Modification of the requirements with respect to Puntarenas is anticipated, following an improvement of conditions there, toward which steps are now being taken. In this work the quarantine service has invited and is receiving the cooperation of the steamship lines affected.

## MOVEMENTS OF OCEAN VESSELS.

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PORT OF CRISTOBAL. (e) Collier. (f) Tug. (g) For orders. (h) Manganese ore, nitrate of soda, wool, and sheep skins.

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*DEPARTURES.	Line.		Caribbean Panama Railroad Cattle Industry Cartagena.  Dinde Fruit Co.  Boers, Habana, N. Orleans Cartago. United Fruit Co.  Gen. W. C. Gorgas Plantmar Railroad Steamship Line.  Hati and New York.  Santa Leonora Leyland Line.  Perto Rico and N. Orleans New Orleans New Orleans	
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•	2	From	New York via Haiti. New Orleans. No Orleans and Porto Rico. No Orleans and Porto Rico. New York via Habana. Liverpool via wayports. Colombian ports. Colombian ports. St. Nazaire and wayports. Boston. London via St. Thomas.	
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		Vessel.	Gen. W. C. Gorgas Cartago Santa Leonora Ulua Balsa (i) Astan Astan Astan Caribbean Perodo Perodo	
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(i) Schooner. (j) Cable ship.

June 15   Lake Elkwater   United States Shipping Board   Junin. June 19   Anyo Maru   Toyo Kisen Kaisha   Valparais	
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DEPARTORES.	П	June 15 Relief (f) Rolph Coal and Navigation Co Autoragasta. June 15 Acapuloo (k) Ocean Shipping Agency Antofagasta.	Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.
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*DEPARTURES.

PORT OF BALBOA.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending June 19, 1920.

				Cargo	<del>-</del>
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Acajutla. Caribbean. Cartago. Gen. W. C. Gorgas. Ulua. Asian. Palena. Allianca. Caribbean. Perou. Jamaica. Cauca. San Pablo. Urubamba. Santa Leonora. Perou.	United Fruit Co	June 14 June 14 June 15 June 16 June 17 June 17 June 17 June 17	June 19	700 1,154 24 178 59 200 13	Tons. \$89 52 81 11 12 25

### Direct Passenger Service to New Orleans.

The United Fruit Company has established a weekly service from Cristobal to New Orleans direct, requiring  $4\frac{1}{2}$  to 5 days at sea. Ships leave Cristobal in the afternoon of Wednesday and are due to arrive at New Orleans in the morning of Monday. A rate of \$69 is quoted for Canal employees, which is \$10.50 less than the rate for indirect voyages heretofore in effect.

With the establishment of this service the United Fruit Company has two sailings a week to and from New Orleans, calling at Cristobal. One line comes from New Orleans direct, returning by way of Bocas del Toro and Habana. The other sails from New Orleans via Habana, Kingston, and Bocas del Toro to Cristobal, returning direct to New Orleans.

### United Fruit Company's Passenger Sailings from Cristobal.

With the establishment of weekly direct service to New Orleans, the following is the schedule of sailings of vessels of the United Fruit

Company from Cristobal, carrying passengers and cargo:
To New Orleans direct, every Wednesday; to New Orleans via Bocas del Toro and Habana, every Wednesday; to New York via Habana, every Sunday at noon; to New York via Cartagena, Puerto Colombia, Santa Marta, Kingston, and Santiago, Cuba, every second Thursday: to Limon, Costa Rica, every Wednesday.

### Freight Service Between Boston and Cristobal.

The United Fruit Company has established a freight service, carrying no passengers, between Boston and Cristobal, with sailings every three weeks. The service was begun by the steamship San Pablo, which arrived at Cristobal on June 18 and cleared for Boston on the return voyage via Limon on the same day.

### Precautions Against Plague from Paita.

A conference between the Chief Quarantine Officer and the agents of steamship lines calling at Paita, Peru, and discharging cargo at Cristobal was held at Cristobal on June 21, to consider procedure for the protection of the Canal ports against infection by plague from Paita, where the plague was recently reported as over 100 cases. One of the lines has stopped calling at Paita. The others suggested that they bring cargo from Paita in a hold separated from the rest of the cargo and unload it in lighters, where it would be fumigated before being discharged on the piers. This will be tried, with the expectation that fumigation for the entire ship every voyage can be done away with. All ships making the Canal a terminus are fumigated from top to bottom while empty, once every three months. This has been found to be very effective in reducing the number of rats aboard the ships and consequently lessening the chances of the spread of plague through infected rats that may get aboard.

### Local Foundry Clay in Use by Mechanical Division.

The foundry of Balboa shops has been making successful use of a clay found on the Isthmus for steel molding and for lining converters. It is found to be quite equal to that which had formerly been imported from the United States but was increasingly difficult to secure, and its use will result in appreciable savings. The clay is secured at Diablo Hill, near Balboa, from part of a cut originally made in a borrow pit. Experiments had been made before on local clays but this is the first which has been found satisfactory for these uses.

### One-day Trip to Pearl Islands on 1,200-ton Vessel.

If as many as 100 people will go, the Supply Department offers to run an excursion to the Pearl Islands on Sunday, July 4, using the lighthouse tender *Favorite* which is 195 feet in length by 43 feet beam. Not more than 125 people will be taken. The charge will be \$5 per person including light luncheon and dinner on the ship. This low rate is possible because the vessel is already engaged for transportation to Taboga for the 4th of July holiday and the side trip can be made at reduced cost.

The schedule contemplated is: Leaves Balboa 10 a.m.; reach the islands about 2 p.m.; cruise through the archipelago, making a landing at San Miguel; returning at dusk and arriving at Balboa about

9 p. m.

Those desiring to go should notify the Chief Quartermaster by mail or telephone (Balboa 187). Whether the trip is to be made will be decided not later than Wednesday, June 30, and those desiring the trip should put in their applications without delay.

### Conversion or Exchange of Liberty Bonds.

The Liberty Loan Committee advises that it will not receive bonds for exchange or conversion after June 30, 1920.

After that date it will be necessary for subscribers to have their bonds converted or exchanged through a bank.

### Weather Conditions in May, 1920.

The rainfall for the month was below normal everywhere, a number of stations receiving the least May rainfall of record. The average May rainfall at most stations exceeds the total rainfall recorded since January 1. May totals ranged from 2.24 inches at Balboa to 9.31 inches at Trinidad. The greatest amount of precipitation recorded on any one day was 3.60 inches at Pedro Miguel on the 28th. Rainy season conditions began to be noticeable about the 15th of the month.

The estimated rainfall over the Gatun Lake watershed was 6.18 inches, compared with a 10-year mean of 11.90 inches, and over the Chagres River basin above Alha-

juela it was 5.92 inches compared with a 19-year mean of 12.49.

The air temperature, surface temperature of the sea, wind movement, and evaporation were above normal, while the relative humidity and daytime cloudiness were below the average. The atmospheric pressure was approximately normal on both coasts.

A number of fogs, most of which were light, were observed at interior stations during the month, all of which had lifted or were dissipated by 8.30 a. m.

Light seismic tremors were recorded on the 7th and 10th of the month.

### GATUN LAKE HYDROLOGY.

Mean elevation of Gatun Lake was 81.94 feet; maximum, 82.40 feet, on the 1st; minimum, 81.65 feet, on the 28th. Evaporation from Gatun Lake surface was 6.124 inches; rainfall on Gatun Lake drainage basin was 6.18 inches; total yield of Gatun Lake watershed was 1.26 inches on the watershed. The total yield amounted to 20 per cent of the rainfall.

Conditions are summarized in the following table:

	ed 4			Tempera	ture.			Prec	pitatio	n			Win	d.	
Stations.	Pressure (reduced to mean of 24 hours).	hours). Mean.		Maximum. Date. Minimum.		Date.	Mean relative humidity.	Total inches.	Station average.	Days with 01 inch or more.	Total move- ment (miles).	Prevailing direction.	Maximum velocity in miles.	Direction.	Date.
Balboa													_		
	29.838 29.843		93	May 6	72	May 27	79 4	3.31	8.23		5,792			N.	May 1
Gamboa		81.8 82.5	95	May 19 May 29 May 20	70	May 27*	79.2	5 48 7.59 2.65	$\begin{array}{ c c c c c }\hline 12.45 \\ 10.62 \\ 13.22 \\\hline \end{array}$	11	7,435 4,280 5,853	N.E.	27 28 29	S. N. E. S.	May 25 May 21 May 21

^{*}And other dates.

### Dance at Hotel Aspinwall.

The Hotel Aspinwall will hold a dance on Saturday, June 26. The launch will leave dock 19 at Balboa at 5 p. m. on regular schedule, with return service on Sunday at 6.30 a. m. and 6.30 p. m. The following are the rates for Government employees at the Aspinwall:

Employees, board and lodging—Adults, \$2.75 per day; adults, week's stay, \$2 per day; adults, month's stay, \$54 per month; children under 2 years, free; children, 2 years to 5 years, inclusive, 75 cents per day; children, 2 years to 5 years, week or month's stay, 60 cents per day; children, 6 years and under 12 years, \$1.25 per day; children, 6 years and under 12 years, week or month's stay, \$1 per day. For employee's family of 4 paying members or more, a reduction of 10 per cent is allowed, not including servants.

### Closing Notice.

The retail commissaries will be closed for quarterly inventory all day on Tuesday, June 29 and the morning of Wednesday, June 30. The cold storage and grocery sections will be opened Wednesday afternoon at the regular hour and other departments as soon thereafter as check has been completed by the inspectors.

### Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings, or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Arthur Thorington Joseph Felix John T. Waters	32152	St. Lucia	Colon	Panama Railroad Co Commissary Division Mechanical Division	June 8, 1920.

### Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

### Official Circulars.

### Acting Auditor.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., June 19, 1920.

HEADS OF DEPARTMENTS AND DIVISIONS:

Effective this date, and during the absence of Mr. H. A. A. Smith on leave, Mr. Elwyn Greene will act as Auditor of The Panama Canal.

CHESTER HARDING, Governor.

### Supplements to List of Nonexpendable Property.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT, BALBOA HEIGHTS, C. Z., June 11, 1920.

CIRCULAR No. 244:

To all concerned—Supplement No. 2 to the list nonexpendable property is now ready for ailing. Distribution will be made by the mailing. Distribution will be made by the Property and Requisition Bureau direct to the responsible officials whose property accounts are handled by that bureau. The Dredging Division, Mechanical Division, and district quartermasters are being supplied from this office. Additional copies will be supplied on written application to this office.

All material foremen, storekeepers, commissary managers, storemen, property and requisition clerks, and all persons authorized to sign foremen's orders should have copies of the nonexpendable list and supplements available at all times, and should familiarize themselves with the nomen-clature and observe the instructions contained

therein.

H. A. A. SMITH, Auditor, The Panama Canal.

Approved: CHESTER HARDING. Governor.

### Accountable Official.

THE PANAMA CANAL, Accounting Department BALBOA HEIGHTS, C. Z., June 14, 1920.

CIRCULAR No. 246:

Effective June 11, 1920, Capt. Frederick Kariger is designated an accountable official of The Panama Canal, vice Mr. George Cartwright, and as such will account for all nonexpendable property in use by the Lighthouse Subdivision.

Н. А. А. Ѕмітн, Auditor, The Panama Canal.

Approved: CHESTER HARDING. Governor.

### Acting General Manager.

THE PANAMA CANAL, SUPPLY DEPARTMENT, BALBOA HEIGHTS, C. Z., June 16, 1920.

All concerned—Effective noon, Wednesday, June 16, and during the absence on leave of Mr. J. J. Jackson, Mr. A. W. Goulet is appointed acting general manager of the Commissary Division.

R. K. MORRIS, Chief Quartermaster.

Approved: CHESTER HARDING, Governor.

### Inventory, The Panama Canal Press.

THE PANAMA CANAL. SUPPLY DEPARTMENT, BALBOA HEIGHTS. C, Z., June 16, 1920.

To all concerned-A complete inventory will be taken at The Panama Canal Press, Mount Hope, on June 27, 28, 29, and 30, and no stock issues will be made on those dates.

Please arrange immediately to protect your requirements in advance of June 27.

R. K. Morris, Chief Quartermaster

### Acting Physiologist.

THE PANAMA CANAL, MUNICIPAL ENGINEERING DIVISION,

BALBOA HEIGHTS, C. Z., June 9, 1920.

To all concerned—During the absence of Mr. George C. Bunker, physiologist, on leave, Mr. A. G. Nolte, assistant physiologist, is appointed acting physiologist. Effective June 9, 1920.

D. E. WRIGHT, Municipal Engineer

### Spices.

THE PANAMA CANAL, SUPPLY DEPARTMENT CRISTOBAL, C. Z., June 17, 1920.

MEMORANDUM No. 563-60:

To all concerned—Spices formerly furnished in 2-oz. tins are now being ordered in bottles with aluminum caps. One cent each will be allowed for the return of these bottles provided the aluminum the return of these bottos.
screw cap is in good condition.
J. J. Jackson,

General Manager, Commissary Division.

### Additions to Commissary Stock.

Boot and Shoe Section. Trees, shoe, men's and women's, japanned \$0.16 13.25 pr.... Women's white canvas lace boots, leather Verdun pumps, pr..... Dry Goods Section. 2.60 a.. 12.60 Coats, Palm Beach, cotton and wool, ea.. Gloves, canvas, with leather palms and gauntlet cuffs, pr...

Hose, men's, mercerized lisle, black, pr...
Hose, men's, mercerized lisle, tan, pr...
Pants, Palm Beach, cotton and wool, pr..
Sets, guest, Turknit, set...
Suitings:
Scree, blue, 54", vd... .44 .44 Serge, blue, 54", yd. Serge, black, 54", yd. Serge, blue, 54", yd. Serge, blue, 54", yd. 5.45 4.50 4.65 Grocery Section. Aerated waters and beverages: Lime juice, Candies: Pralines, pecan, Creole, pc.
Capers, 2-oz. bot.
Hash, corned beef, 1s tin.
Peas, sifted, 5s tin.
Powder, baking, Rumford's, ½-lb. tin.
Powder, baking, Rumford's, ½s tin.
Rice, screenings, first grade, 2s sack.
Rice, screenings, first grade, 4s sack.
Snuff, Copenhagen, 1½-oz. tin.
Soap, scouring, Dutch, cake.

Hardware Section. .16 .26 09 .16 .16 10 Hardware Section. Bags, cricket, solid leather, ea. 19.50
Comports, nickel plated, ea. 3.05
Cups and saucers, enamel, white, set. 48
Dishes, chafing, electric, nickel plated, ea. 11.70
Dishes, almond, nickel plated, ea. 2.45

### May Rainfall for Three Years.

	1	NCHES.				
Stations.	1918	1919	1920	Station average.	Years of record.	Rainy days, 1920.
Vigia Frijoles Trinidad	6.45 6.75 8.36 9.36 13.68 16.20 15.30 13.56 11.45 10.29 11.34 11.46 11.29 15.10	5.92 5.21 6.07 7.37 6.35 6.90 5.08 7.01 5.82 7.77 6.11 4.30 8.28 7.28	2.24 3.31 4.38 7.45 7.38 6.78 9.27 7.66 7.59 3.98 4.46 6.07 4.02 9.31	7.81 8.23 9.19 10.35 10.33 10.85 10.94 9.78 10.62 9.91 11.55 10.87 10.64 12.74	22 22 12 13 16 29 14 16 39 10 20 12 9	12 9 12 14 15 11 15 11 11 11 11 15 11
Monte Lirio	14.51 11.64 16.99 19.26 22.91	7.16 8.71 6.95 13.86 9.98	6 34 2 65 4 99 5 48 5 05 6 93	12.02 13.22 12.73 12.45 15.73 10.91	13 16 14 50 9 12	10 11 13 11 20 21

### Rainfall from May 1 to May 31, Inclusive.

STATIONS.	Maximum in one day.	Date.	Total.
Pacific section— Balboa Balboa Heights Miraflores. Pedro Miguel. Rio Grande. Central section— *Culebra. *Camacho Empire. Gamboa *Juan Mina Alhajuela *Vigia *Darien *Trinidad *Monte Lirio. Atlante section— Gatun. *Brazos Brook. Colon *Bocas del Toro *Porto Bello	Ins. 1 03 1 66 2 30 3 60 2 .83 2 .70 3 .40 2 11 1 74 2 22 1 1 85 2 26 2 .58 1 08 2 .00 1 11 1 .13	28 28 28 28 28 28 29 29 29 29 28 31 28 28 31 18 17 18 17 18 24 23 29	Ins. 2 24 3 31 4 38 7 45 7 38 6 78 9 27 7 .66 7 .59 3 .98 4 .46 6 07 7 .30 9 .31 6 .34 2 .65 4 .99 5 .48 6 .93 5 .05

Standard rain gauge—readings at 5 p. m. daily. Automatic rain gauge at unstarred stations-values, midnight to midnight.

†Standard rain gauge—readings at 8 a. m. daily.

### Misdirected Letters.

BALBOA HEIGHTS, C. Z., June 21, 1920.

Balboa Heights, C. Z., June 21, 1920.

The following insufficiently addressed mail matter has been received in the office of the Director of Posts and may be obtained upon request of the addressees. Requests for forwarding may be made by telephone, calling No. 182, Balboa.

Bellamy, Arthur H., Johnson, Werner.

Box 798 Jolly, J. H.

Berger, Pearl D.

Bossert, Armand

Cornwall, Miss Martha

Crawford, Mrs. W.

Earle, Lyon H.

Dogden, Albert

Ogden, Albert

Parker, Raymond Earle, Lyon H.
Edey, G. A.
Ehrman, G. H.
Ehrman, Wm. E.
Glahn, Miss Louise
Gray, Miss Edna Parker, Raymond Richer, Julis Stouter, Rev. Charles Surn, L. B. Svitak, Eniss Towler, Mrs. H. H. Walker, Miss Madeline Griffith, Joseph Honeycut, Lawton Jester, W. A. Willoughby, Henry

### Sale of Tug "Miraflores."

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10.30 a. m., June 30, 1920, and then opened, for the purchase of the tug Miraflores. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

Sale of Roofing Paper.

Sale of Roofing Paper.

Sealed bids will be received in the office of the Chief Quartermaster, Balboa Heights, C. Z., up to 10.30 a. m., June 25, 1920, and then opened for the purchase of about 470 rolls of roofing paper (containing about 216 square feet each), which was rejected by The Panama Canal. About 294 rolls are at section "E," Balboa storehouse, and about 176 rolls at Cristobal storehouse. Form of proposal may be had upon application at the office of the Chief Quartermaster, or at Balboa and Cristobal storehouses. The Panama Canal reserves the right to reject any or all bids. reserves the right to reject any or all bids.

### Current Net Prices on Coal, Fuel Oil, and Beef.

Coal is being supplied to steamships including Coal is being supplied to steamships including warships of all nations delivered and trimmed in bunkers, at \$13.50 per ton of 2,240 pounds at Cristobal and \$15.50 at Balboa. For ships in transit through the Canal, which are directed to take coal at Balboa, for the convenience of The Panama Canal, \$13.50 per ton at Balboa. For ships taking less than car load lots from plants or less than 25 tons from lighters, the price is \$15 per ton at Cristophal \$17 at Balboa.

per ton at Cristobal, \$17 at Balboa.

Crude fuel oil is delivered to vessels at either Cristobal or Balboa for \$2.50 per barrel of 42

gallons.

Diesel oil is not sold by The Panama Canal, but may be obtained from private concerns at approximately \$4.00 per barrel. Cable arrangements should be made in advance of arrival of vessel.

The following are current prices on fresh beef sold from the cold storage plant of the Canal. Prices quoted are United States currency, per

pound net:

Beef hinds, 19 cents; beef fores, 14 cents, beef ribs, entire set, 20 cents; short loins, 25 cents. This beef is from Colombian cattle

### COMMISSARY NOTE.

### Books.

### Books received:

"Best Short Stories of 1919," by E. J. O'Brien; "The Career of Leonard Wood," by Joseph Hamblen Sears; "Poor Relations," by Compton MacKenzie; "Baker's Dictionary of Musical Terms," "Peter Middleton," by Henry K. Marks; "The Web," by Emerson Hough; "Spanish-American Short Stories;" "In Lincoln's Chair," by Ida M. Tarbell, "The Novels and Tales of Jack London" (21 volumes); "The Swing in Golf and How to Learn It," by A. Q.

## THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address
The Panama Canal Record, Balboa Heights, Canal Zone, or
The Panama Canal, Washington, D. C.
Entered as second-class matter February 6, 1918, at the Post Office
at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., June 30, 1920.

No. 46.

### The "Koyo Maru" Aground at Serrana Bank.

A radio message received in the morning of June 29 carried information of the grounding of the steamship *Koyo Maru* on Serrana Bank, and steps were immediately taken to despatch the salvage vessel *Favorite*, recently placed in the Canal service, to her assistance. The *Favorite* was called in by radio from lighthouse work in the Gulf of Panama, passed through the Canal, and sailed from Cristobal at 4.30 in the morning of June 30.

The Koyo Maru is a 400-foot steamship of approximately 8,000 tons, and is on her way from New Orleans to the Canal. She passed through the Canal on April 16, on her way from Singapore to New Orleans with a general cargo of 6,256 tons, and was then on her maiden voyage, beginning a service of the Toyo Kisen Kaisha between the

Far East and New Orleans.

Serrana Bank lies about 300 miles to the north of the Atlantic end of the Canal, about 50 miles beyond Roncador Bank, on which The Panama Canal maintains a light. There is a light on Serrana Bank, maintained by the United States Lighthouse Division. It is about 180 miles east of the coast of northern Nicaragua.

### Continuing Panama Railroad Steamship Service to Colombia.

The steamship Gen. G. W. Goethals of the Panama Railroad Steamship Line sailed from Cristobal with passengers and cargo for Cartagena and Puerto Colombia in the afternoon of June 29, continuing the service which was begun by the Allianca with her sailing for these ports on June 4. No fixed schedule of sailings has been announced, the development of the service being for the present according to demand and the tonnage available.

### Peruvian Line Extending to Europe.

The Peruvian Steamship and Dock Company of Callao (the Peruvian Line) announces the establishment of a direct service between Peruvian and European ports, with the sailing of the steamship Paita, which is due to pass through the Canal early in July. Efforts are being made to increase the company's fleet by the purchase of 4

additional passenger and cargo ships.

The Peruvian Line has been transferring cargo at the Isthmus since 1909, at Balboa before the opening of the Canal and at Cristobal since. It will continue its connections at the Isthmus, under present plans, while developing the direct service. It has a weekly service between Cristobal and ports as far south as Mollendo and Ilo, with principal calls at Guayaquil, Paita, Eten, Pacasmayo, Salaverry, Callao, and southern ports.

The steamship *Paita* was the ex-German steamer *Annubis*. She is an 8,000-ton ship, and was interned in Peru by the Peruvian Government during the European war. Peru broke relations with Germany and took over all the German steamers and sailing vessels lying in

Peruvian waters.

# MOVEMENTS OF OCEAN VESSELS. Week ending at midnight June 26, 1920.

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	a Canal	Net	2,655 8,727 2,346 5,687 3,068	1,228 4,735 6,232	5,443 350 1,742 1,742 1,745 4,150 4,156 69 4,829 2,928 2,928 5,494 5,545 4,034	2,764 2,839 2,751 4,816 4,816 2,459 1,23 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1,769 1
	Panama Cana tonnage	Gross	829 4,095 4,800 6,803 12,151 3,950 3,241 8,514 7,495 392 4,535	1,432 6,460 8,283	7,699 7414 2,414 2,357 5,842 5,842 130 6,589 4,543 7,443 5,659	4,503 6,571 3,952 6,841 3,739 6,690 6,744 7,059
		Tons	8,500 6,800 8,514 8,514 392	8,600	3,650 3,100 2,350 11,805 1,805 6,884 4,000 6,325 6,325 6,325	7,981 7,981 7,853 2,526 9,000 3,100 4,683 9,300
		Cargo	General Naval supplies. General Steel and cotton Case oil General	BallastGeneral	General mdsc.etc General Sulphur Sugar mill mach. General Coal. Ballast. General General General General General General General	Ballast (General and steel 7, 788 (General and steel 7, 788 (General Ballast Coal. 7, 783 (Oal. Ballast 9, 100 (Oil. Sulphur General, cement 4, 638 (Oil. 9, 100 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4, 638 (General, cement 4,
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		From—	Cristobal New York Liverpool Savannah Cristobal	Sharpness New York	Glasgow Chistobal Guisebon New York New York La Planel Chistobal New York Chistobal New York Chistobal New York Tampico Tampico Norfolk	Norfolk. New York. New York. Miami, Fla Meynort News Habana. Cri-tobal Tampico. Galveston. New York
	Salt	water draft	25.0 25.0 27.0 26.3 26.3	12.5 25.0 26.6	20.6 20.6 20.6 20.6 20.6 20.6 20.6 20.6	203 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CIFIC,		Beam	43.1 50.7 63.0 44.0 54.0 44.3	43.5 56.0 55.0	250.0 250.0 250.0 250.0 250.0 250.0 250.0 270.0 270.0 270.0	245.3 245.3 245.3 255.0 31.0 255.0 255.0 257.0
C TO PA		Length Beam	350.0 392.0 500.9 305.0 410.0 379.6	231.4 423.0 450.0	455.0 262.0 275.0 275.0 275.0 413.0 81.0 410.0 380.0 155.0 380.0 380.0	256.4 10.0 260.0 350.0 345.0 345.0 164.0 264.0 423.0
THROUGH THE CANAL-ATLANTIC TO PACIFIC,		Line	Pacific Steam Navigation Co. United States Navy. Shaw, Saville & Albion Co Ocean Steamship Co United States Shipping Board South American Steamship Lane.	Rolph Navigation Co Prince Line, Ltd Commonwealth and Dom. Line.	T. & J. Harrison. Colombian Maritime Co. T. E. Cilliberg. Philippine Vegetable Oil Co. W. R. Grace & Co. A. D. Bordes. Parific Metals Corporation United States Shipping Board. Ellerman & Bondenall United States Navy. Ellerman Wishon. Slandard Oil Co. United States Navy.	Panama Railroad Steamship Line United States Shipping Board. Bacific Steam Navigation Co. E. Bur. United States Shipping Board. Pacific Mail Steamship Co. German Firkur. Union oll Co. J. E. Clilliberg. W. R. Grave & Co.
		Nationality	British American British Japanese American.	American British	British. American. American. American. French. French. French. British. American. British. American. American.	19.0.47 American 19.30 American 14.06 British 7.37 American 9.21 American 9.21 German 17.44 British American 17.44 American 17.44 American 17.44 American 17.44 American 17.44 American
	Cleared for sea	TuoH	15.38 16.40 15.55 11.05 2.55 20.07	18.00 15.55 16.19	23.14 223.14 223.15 16.40 16.40 221.30 221.30 221.00 15.10	20.47 19.30 14.06 7.37 2.10 9.21 17.44 17.44
		Day	20 20 20 20 20 20 20 20 20 20 20 20 20 2	05 24 43 21 17 21	25 25 25 25 25 25 25 25 25 25 25 25 25 2	0.0000000000000000000000000000000000000
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*Other than ships passing through the Canal.

## THROUGH THE CANAL-PACIFIC TO ATLANTIC.

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Teopold Walford.   3777.0   Pagie Metals Corporation.   81.0   Finited States Shipping Board   400.7   Pagie Steam Navigation   20.5   Pagie Steam   20.5   Pa	PORT OF CRISTOBAL.		From— Date.	Port Limon.  New Orleans.  Have and wayports.  New York and Kingston.  New York and Kingston.  June 23.  Ansterdam.  June 23.  June 24.  June 25.  June 24.  June 25.  June 25.  June 25.  June 26.	FORT OF BALBOA.		La Union.	Hours are expressed on the 24-hou
8.39 20 16.48 21 6.45 British 8.42 20 15.55 21 8.26 British 8.42 20 15.55 21 8.26 British 9.56 21 16.10 22 2.26 British 9.56 21 16.10 22 2.20 British 9.47 22 17.29 2.22 American 9.47 22 17.29 2.22 American 9.47 22 17.55 28 6.13 British 6.48 22 18.40 Gramm 6.48 22 18.40 Gramm 10.07 23 18.40 27 17.00 Gramm 10.07 23 17.55 British 9.42 20 18.40 27 18.40 27 17.00 Gramm 10.07 23 17.55 British 9.42 20 20 British 9.42 20 20 British 9.42 20 20 British 9.42 20 20 Gramm 10.07 23 18.40 27 28 6.10 Peruvian 10.47 24 16.92 26 6.00 American 6.45 24 16.92 26 6.00 American 6.43 26 15.90 American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American Ame		*ARRIVALS.	Line.	United Fruit Co Freuch Line Freuch Line United States Singring Board United States Singring Board Caribbean Steamship Co United Fruit Wo Fruit Most India Mail Royal Dutch West India Mail Royal Dutch West India Mail Royal Dutch West India Mail Forman Plantation Syndiatic United Fruit Co Framma Railroad Steamship Line United Fruit Co Framma Railroad Cattle Industry Panama Railroad Steamship Line United States Army	(j) Launeh.		*ARRIVALS. United States Navy	hrough the Canal.
20			Date ( Vessel.	June 20.  June 21.  June 21.  June 22.  June 23.  June 24.  June 25.  June 25.  June 25.  June 27.  June 28.  Calon.  June 28.  Caribbean.  June 29.  Aryance.  June 24.  Advance.	GA II S. Army transport.	(1)	June 26   Tacoma (h)	*Other than ships passing through the Canal

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending June 26, 1920.

		}		Cargo—		
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.	
				Tons.	Tons.	
Лua	United Fruit Co	June 20	June 20	32		
Caribbean	Panama Railroad Cattle Industry.	June 17	June 20		199	
Ieredia	United Fruit Co	June 21	June 24	674		
Cajutla	Pacific Steam Navigation Co	June 21				
uerto Rico	Company General Transatlantic	June 21	June 24			
Perou	Company General Transatlantic	June 17	June 21		1	
Lysen	South American Steamship Co	June 16	June 21		24	
Coloa	United Fruit Co	June 22	June 23		18	
den. O. H. Ernst	Panama Railroad Steamship Line	June 22	June 24			
Ianavi	Pacific Steam Navigation Co	June 22				
stuyvesant	Royal Netherlands W. I. S. S. Co	June 22	June 23	$26\frac{1}{2}$	90	
Arabia	Panama Plantations Co	June 22	June 22		20	
Balboa Faraday	Colombian Maritime Co	June 19			60	
Colon	Cable Co., Colon	June 18	June 22		2	
Metapan	United Fruit Co	June 23 June 23				
Carrillo	United Fruit Co.	June 23			47	
Manuel Calvo	Compañía Transatlantica	June 23			2	
Hermes	Royal Netherlands W. I. S. S. Co	June 23				
Caribbean	Panama Railroad Cattle Industry	June 24				
nca	Pacific Steam Navigation Co	June 24				
Advance	Panama Railroad Steamship Line.	June 26				
Buford	United States Army					
San Jose	Pacific Mail Steamship Co					
City of Para	Pacific Mail Steamship Co		June 26			

^{*}Schooner.

† Cable ship.

Coal.

### Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balhoa for Two Weeks Ending June 26, 1920.

Name of vessel.				Cargo—		
	Line or charterer.	Arrived.	Departed.	Discharged	Laded.	
San Francisco	Pacific Steam Navigation Co. Pacific Steam Navigation Co. United States Navy. United States Shipping Board Pacific Mail Steamship Co. Pacific Steam Navigation Co. Vacuum Oil Co. Colombian Maritime Co. Toyo Kisen Kaisha Pacific Steam Navigation Co. Pacific Steam Navigation Co. Colombian Maritime Co. Pacific Metam Navigation Co. Colombian Maritime Co. Pacific Metals Corporation Pacific Mail Steamship Co. Johnson Line	June 16. June 17. June 17. June 18. June 19. June 21. June 23. June 22. June 23. June 25. June 25.	June 13. June 15. June 16. June 17. June 19. June 18. June 20. June 22. June 23. June 23. June 23. June 23. June 23. June 24.	10,000 3 2,167 180 10,000 3 32 23 303 2	Tons.  11  12:  8: 7:	

### Fourth of July Excursion Rate.

PANAMA RAILROAD COMPANY, BALBOA HEIGHTS, C. Z., June 23, 1920.

CIRCULAR No. RA 692:

To all concerned—The Governor has approved an excursion rate of \$1 from any station on the Panama Railroad to Colon and return, for all Americans attending the patriotic exercises at Colon-Cristobal, on July 5, 1920.

Special ticket form MR 57192 will be sent to all station agents south of Gatun for sale on this occasion, good on all regular passenger trains July 5, only. All unsold

tickets must be returned to the Auditor, July 6.
Enlisted men of the United States Army and Navy, in uniform, will be carried on all trains free, but civilian participants in any of the events, and Armyand Navymen, not in uniform, will be required to have transportation.

ELWYN GREENE, Acting Auditor.

Approved and compliance directed:

S. W. HEALD,

Superintendent.

Transportation for Fourth of July Celebration.

Circulars RA-692 and 1563, published in this issue, establish conditions of transportation on the Panama Railroad for the celebration of the Fourth of July to be held at Cristobal on July 5.

The schedule is the regular schedule for Sundays and holidays, on the main line, with the addition of the special trains leaving Panama

at 8.30 a. m., July 5, and Colon at 12.15 a. m., July 6.

Special tickets, sold for \$1.00 to all Americans, will be good for transportation from any station to Colon and return on all trains on July 5, except the two special trains. On the special trains only American employees and their families, and soldiers and sailors in uniform, will be carried, and no tickets will be required from them on the specials.

All regular forms of tickets, passes, and mileage will be honored from the general public on all trains except the specials, under the usual

conditions.

Features of the celebration are: Patriotic exercises, field, track, and aquatic events, daylight and night fireworks, dirigible ascension, submarine and air-craft exhibitions, band concert, and dancing.

# Excursion to the Pearl Islands May Be Canceled.

The projected excursion to the Pearl Islands from Balboa on July 4, notice of which was published last week, will probably be canceled on account of the necessity of despatching the steamship *Favorite* which was to have been used on the trip, to the assistance of the steamship *Koyo Maru*, reported by wireless aground on Serrana Bank.

The Favorite should reach Serrana Bank in the forenoon of July 1, and if it should be possible to free the Koyo Maru in good condition in a short time, would be able to return to the Canal in time for the excursion. Her master states that he will advise by radio as to the

prospects, not later than noon of July 1.

Over 200 applications had been made for passage, and officials in charge greatly regret the probability of giving up the excursion. It is hoped that the *Favorite* can be secured for the trip at a later date, if not available for July 4.

# Commuting to and from Taboga.

Over 50 persons have made reservations for board and lodging at the Hotel Aspinwall on Taboga Island, under the commuting plan outlined in The Panama Canal Record of May 26. This arrangement includes a rate of \$54 a month for lodging and three meals a day for the wife of a Government employee, and a rate of \$50 a month for the employee, covering transportation to Taboga in the evening, dinner, lodging, breakfast and return transportation to Balboa in the morning. The launch leaves Balboa at 5 p. m. and Taboga at 6.30 a. m.

Postal Clerk Examinations.

Until further notice, no further examinations will be held in the United States for the position of postal clerk for duty on the Canal Zone, it being desired to fill such positions either by the transfer of experienced clerks from the United States postal service, or by examinations held on the Canal Zone. Instead of being a first grade examination, it has now been changed to a second grade examination, to conform to that held in the United States for the postal service.

The next examination is scheduled for July 10, 1920, at Balboa

Heights.

# Dry Season Rainfall Records.

In order to make comparison of the past dry season, which was abnormally long, with previous dry seasons and use all available records, the following table was compiled for the normal 4-month dry season. This table gives the total rainfall for the different sections and the entire Canal Zone and vicinity for the 4-month dry seasons since American occupation; also the normal 4-month dry season rainfall:

RAINFALL IN INCHES; FOUR-MONTH (JANUARY-APRIL) DRY SEASON.

Year.	Pacific section.	Central section.	Atlantic section.	Canal Zone.
1905	5.68	7.17	12.55	8.14
	5.97	7.99	10.94	8.22
1907. 1908.	1.86	1.44	7.93 9.43	2.80 5.25
1900	8.64	12.93	28.07	15.64
1910	8.84	15.37	23.38	15.74
1911	7.63	6.65	11.10	8.01
1912.	1.82	2.55	4.32	2.81
1913.	2.88	5.61	13.28	6.84
1914	3.62	4.74	8.30	5.35
1915	7.58	12.80	23.42	14.15
1916	7.06	10.31	12.41	10.02
1917	2.37	3.78	6.19	4.03
1918	7.77	8.38	11.20	8.93
1919 1920 Normal dry season	1.30 2.39	2.86 2.07 7.31	4.93 4.10	$\begin{array}{c} 2.99 \\ 2.66 \\ 7.89 \end{array}$

# Gatun Lake at New Minimum Level in Past Dry Season.

The past dry season, beginning about the middle of December, 1919, and ending on May 13, 1920, was the driest since the American occupation of the Canal Zone, which began on May 4, 1904. It was, however, slightly shorter than that of 1911-12, which began about December 1 and ended on May 7. The average precipitation recorded at the 12 stations on the Isthmus, Porto Bello, Colon, Gatun, Monte Lirio, Trinidad, Gamboa, Alhajuela, Vigia, Culebra, Empire, Pedro Miguel, and Balboa Heights, was 5.37 inches in the season of 1911-12 and 3.93 inches in the season 1919-20.

The scanty rainfall of the past season resulted in lowering the surface of Gatun Lake below any previous level since the opening of the Canal in 1914. The lowest point reached was elevation 81.76 feet above sea level. This occurred on May 28, after the rains had begun but before the run-off of the lake drainage basin had increased. On June 28 the surface of the lake had reached 82.76, a rise of a foot from the minimum level.

The storage depletion of the lake, represented in the drop of 5.24 feet from the 87-foot level at which the dry season began, amounted to 20.46 billion cubic feet. On March 3 the water consumption at the hydroelectric station was reduced, and about 50 per cent of the load was carried by the steam generating plant at Miraflores until June 3. If the hydroelectric station had continued using water throughout the dry season at the rate of consumption of the month of February, the elevation of the lake on May 28 would have been 80.55, or about  $14\frac{1}{2}$  inches lower than it actually was. A surface elevation of 79 feet has been considered as giving ample depth of water for navigation through the completed Canal.

The water supply of the Canal depends principally on rainfall in the Atlantic section and over the upper basin of the Chagres River, which is the principal tributary to Gatun Lake, ordinarily producing 60 per cent of the dry season total yield for the lake. The discharge from the Chagres, and in general the elevation of the lake, will be

dependent on the rainfall occurring in this section.

The Chagres River discharge at Alhajuela was 56 per cent below the 19-year 4-month dry season average, or 565 c. f. s. against a mean of 1,275 c. f. s. The minimum momentary discharge, 231 c. f. s., occurred after the 4-month period, on the 11th of May. The maximum momentary discharge between January 1 and May 15 was 1,813 c. f. s. on January 7, 1920.

Had the proposed Alhajuela Lake of 15 billion cubic feet capacity been available for replenishing the Gatun Lake storage depletion, Gatun Lake would have been at elevation below, under conditions

mentioned:

Under operation losses incident to 1919-1920 dry season Gatun Lake would have fallen to elevation 84.95 above sea level on May 28, 1920.

Had the hydroelectric station continued using water as in February, 1920, throughout the whole dry season, Gatun Lake would have been at elevation 83.85 on May 28.

## Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Board of Civil Service Examiners, Balboa Heights, (telephone 286):

Junior engineer and deck officer, U. S. Coast and Geodetic Survey (male and female); \$2,000 a year; July 14-15, 1920; form 1312; age, under 26 years.

Psychological investigator in employment tests (male and female); \$3,000 to \$3,800 a year; July 27, 1920; form 2118; age, 25 years and over.*

Accounting and statistical clerk (male and female); \$1,300 to \$2,100 a year; July 14, 1920, and August 18, 1920; form 1312; age, 21 years but not 50 years.

Associate agricultural economist (male and female); \$3,240 to \$3,840 a year; July 27, 1920; form 2118; age, 30 years and over.

Associate agricultural economist (male and female); \$3,240 to \$3,840 a year; July 21, 1920; form 2118; age, 30 years and over.*

Examiner of accounts (male and female); grade 1, \$2,520 to \$3,900 a year, with an allowance for expenses when absent from headquarters in the discharge of official duties; grade 2, \$2,100 to \$2,400 a year and such allowances; No. 427-amended; form 2039; age, under 48 years.†

Preparator in entomology (male and female); \$720 a year; No. 365; July 7, 1920; form 304; age, 18 years and over

18 years and over.

Senior engineer, grade 2, civil, electrical, mechanical, signal, structural, telegraph, and telephone; \$1,920 to \$2,700 a year; No. 364; July 20, 1920; form 1312; age, 25 years but not 50 years.*

Shop apprentice (male and female); \$720 a year; No. 380; July 20, 1920; form 1312; age, 16 years but not 18 years.*

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications and they must be in the hands of the Commission at Washington prior to the hour of closing business on that day. †Nonassembled. Applications will be received at any time until further notice.

#### Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings, or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Cheek No.	Native of—	Isthmian residence.	Employed by—	Date of death.
William John	27674 41532	Guadeloupe Panama	Colon Panama	R. & F. Agency Cattle Industry	June 17, 1920. June 17, 1920.
Sinelair	40446	St. Lueia Panama	Colon	Coaling Station	June 14, 1920.

# Official Circulars.

#### Claims for Salvage.

THE PANAMA CANAL.

EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., June 22, 1920.

To masters, officers and members of crews of Panama Canal and Panama Railroad vessels and floating equipment—It is desired that hereafter masters, officers, and members of crews of vessels and floating equipment of The Panama Canal and the Panama Railroad Company consult with and the Fanama Rairoad Company consult with the Governor before instituting libel suits or claims at law for salvage. If it is considered that they have legal claims, their rights will not be abro-gated. However, it is desired to avoid embarrass-ment to the Canal and railroad administrations through crews bringing action in cases which are not justified, and therefore this circular is being

CHESTER HARDING, Governor, The Panama Canal. President, Panama Railroad Co.

# Prize Fighting and Boxing Prohibited.

THE PANAMA CANAL, EXECUTIVE OFFICE

BALBOA Heights, C. Z., June 22, 1920.

CIRCULAR No. 606-3:

1. Prize fighting, boxing, and sparring are pro-hibited in the Canal Zone by Sections 288 and 289 of the Laws of the Canal Zone, which read as

Sec. 288. A person who engages in, instigates, aids, encourages, or does any act to further a contention or a fight, without weapons, between two or more persons, or a fight commonly called two or more persons, or a fight commonly called a ring or prize fight, or who engages in a public or private sparring exhibition, with or without gloves, within the Canal Zone, who sends or publishes a challenge for such a contention, exhibition or fight, or carries or delivers such a challenge or acceptance, or trains or assists any person in training or preparing for such a contention, exhibition or fight, shall be guilty of a felony, and upon conviction shall be fined not less than one thousand dollars and be imprisoned in the penitentiary not less than one year nor more than three years.

less than one year nor more than three years.
Sec. 289. Every person wilfully present as a spectator at any fight or contention mentioned in the preceding section, is guilty of a misde-

meanor.

neanor.

2. Also, the participation of employees of The Panama Canal and the Panama Railroad Company in prize fighting, boxing, or sparring matches in the Republic of Panama, as principals. promoters, managers, trainers, seconds, or backers is prohibited.

CHESTER HARDING, Governor.

# Acting Port Captain-Local Inspector and Chairman of Board.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS C. Z., June 28, 1920.

All concerned—Effective this date, Captain H. L. Eden will act as Captain of the Port, Cristobal, and Member of the Board of Local Inspectors, and Lieutenant-Commander Chas. Svensson, U. S. N. R. F., will act as Chairman of the Board of Local Inspectors.

CHESTER HARDING, Governor.

### Special Train Service for Celebration of Fourth of July.

PANAMA RAILROAD COMPANY, OFFICE OF MASTER OF TRANSPORTATION, BALBOA HEIGHIS, C. Z., June 28, 1920. CIRCULAR No. 1563:

To all concerned-The Panama Railroad will operate the following trains in addition to the regular schedule, Monday, July 5. Special train, first-class only, free transporta-tion, for the exclusive use of American employees and their families, and soldiers and sailors in uniform, leaving Panama 8.30 a.m. on the following schedule, stopping at stations shown:

Balboa Heights	8.35 a. m
Corozal	8.40 a. m
Pedro Miguel	8.50 a. m
Summit	9.05 a. m.
Gamboa	9.17 a. m.
Darien	9.25 a. m
Monte Lirio	9.40 a. m
Gatun	9.52 a. m
Colon (arrive)	10.05 a. m
Train No. 12, leaving Panama	9.35 p. m
Train No. 11, leaving Colon	9.35 p. m

TUESDAY, JULY 6.

Soecial train, first-class only, free transporta-tion, for the exclusive use of American employees and their families, and soldiers and sailors in uniform, leaving Colon 12.15 a. m., stopping at all stations, except Frijoles, Red Tank, and Miraflores.

Transportation will be collected on all trains, except the 8.30 a.m. special from Panama July 5, and the 12.15 a.m. special from Colon July 6, which specials are for the exclusive use of American employees and their families, and soldiers and soldiers and soldiers and soldiers and soldiers and soldiers and soldiers are transported to the soldiers. sailors in uniform, from whom no transportation will be collected.

W. J. BISSELL, Acting Master of Transportation.

Approved: S. W. HEALD, Superintendent.

#### Motor Transportation.

THE PANAMA CANAL. SUPPLY DEPARTMENT,

Per hour

BALBOA HEIGHTS, C. Z., June 9, 1920. To all concerned—Effective June 1, 1920, the following motor transportation rates will be charged against departments and divisions of The Panama Canal. This supersedes previous circulars:

	-	CI	mous.
Jitneys			\$1.00
Ford ½-ton delivery trucks			
Ford and form A 1-ton trucks			.80
Ford 1-ton garbage trucks			1.00
One and one-half ton trucks			2.20
Two and one-half ton trucks	Ċ		2.40
Three and one-half ton trucks			3.00
A deduction of 33 cents per hour may			
for each Ford truck used without a			

and \$1.01 per hour for other trucks. R. K. Morris, Chief Quartermaster. Approved:

CHESTER HARDING, Governor.

Sale of Empty Sand Bags.

Sale of Empty Sand Bags.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10.30 a. m., July 6, 1920, and then opened, for the purchase of approximately 500 empty silica sand bags, made of strong, finely woven burlap, on hand at Balboa storehouse. Form of proposal may be had upon application to the office of the Chief Quartermaster. The Panama Canal reserves the right to reject any or all bids.

#### Sale of Second-Hand Lumber.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Bal-boa Heights, C. Z. up to 10.30 a. m., July 3, 1920, and then opened, for the purchase of about 17,000 and then opened, for the purchase of about 17,000 feet of old lumber located on the sites of former Panama Railroad Company stables A, B, C, and D, in Colon. Detailed information and form of proposal may be had upon application to the office of the Chief Quartermaster: The Panama Canal reserves the right to reject any or all bids.

# THE PANAMA CANAL RECORD

PUBLISHED WEEKLY.

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address The Panama Canal Record, Balboa Heights, Canal Zone, or The Panama Canal, Washington, D. C.

Entered as second-class matter February 6, 1918, at the Post Office at Cristobal, C. Z., under the Act of March 3, 1879.



No. 47.

Volume XIII.

Balboa Heights, C. Z., July 7, 1920.

CANAL WORK IN MAY.

The following is the report of the Governor to the Secretary of War, of Canal work in the month of May, 1920:

BALBOA HEIGHTS, C. Z., June 29, 1920.

The Honorable, the Secretary of War, Washington, D. C.

SIR: I have the honor to submit the following report of The Panama Canal for the month of May, 1920:

CANAL TRAFFIC.

The number of ocean-going commercial vessels passing through the Canal during the month was 224, not including 6 United States Navy vessels, 1 United States Army transport, and 1 merchant ship with coal for the United States Navy. A de-

The Panama Canal net tonnage of the 224 commercial vessels aggregated 852,425 tons; 29,954 greater than for the preceding month. Their registered gross tonnage was 1,081,462, and registered net tonnage, 694,941. The total cargo carried was 974,919 tons of 2,240 pounds, 107,398 tons greater than for April. Of the total for this month, 2,258 tons were carried as deck cargo. The total number of vessels and craft of all kinds through the Canal was 237, as compared with 240 last month. The total tolls earned for the month were \$834,487.54; the average toll-paying vessels per day were 7.35; and the average tolls per vessel, \$3,660.03. Tolls collected amounted to \$828,476.21 \$828,476.21.

The average tonnage, Panama Canal measurement, was 3,805; United States net equivalent, 3,100; registered gross, 4,828; and registered net, 3,102. The average

cargo carried by the laden ships was 4,899 tons.

The United States coastwise trade for the month included 16 vessels with a total Panama Canal net tonnage of 68,377, carrying 89,037 tons of cargo. There were 7 vessels from the Atlantic to the Pacific Coast with a total tonnage of 28,090, and cargo of 28,205 tons; and from the Pacific to the Atlantic Coast, 9 vessels with a total tonnage of 40,287, and cargo of 60,832 tons.

PRINCIPAL COMMODITIES.

Bulk shipments of whole cargoes of the different principal commodities included in the May traffic were:

FROM ATLANTIC TO PACIFIC.

Commodity.	No. of cargoes.	Tons.	Total tons.	From—	То—
Coal	3	10,309		Norfolk	Iquique.
Coal	2	11,119		Norfolk	Antofagasta.
Coal	1	9,114		Norfolk	Mejillones.
Coal	1	6,845		Norfolk	Callao.
Coal	1	3,469		Newport News	Iquique.
Coal	1	2,695		Newport News	Mollendo.
Coal	1	2,732	46,283	Baltimore	Guayaquil.
Fuel oil	2	19,928		Tampico	Balboa.
Fuel oil	2	16,300		Tampico	Pisagua.
Fuel oil	1	10,410		Tampico	Taltal.
Fuel oil	1	10,300		Tampico	San Francisco.
Fuel oil	1	9,280		Tampico	Antofagasta.
Fuel oil	1	8,497		Puerto Lobos	Pisagua.
Fuel oil	1	2,600	77,345	Tuxpan	Arica.
Case oil	1	10,604		Beaumont	Hongkong.
Case oil	1	10,100		Sabine	Shanghai.
Case oil	1	6,500		Philadelphia	Salina Cruz.
Case oil	1	6,200		Norfolk	Brisbane.
Case oil	1	6,000	39,404	New York	Chemulpo.
Sulphur	I	5,800		Texas City	Sydney.
Sulphur	1	5,650		Sabine	Fremantle.
Sulphur	1	5,500	16,950	Sabine	Melbourne.
Briquettes	2		5,198	Norfolk	Mollendo.
Naphtha	1			Tampico	San Francisco.
Phosphate	1		6.761	Tampa	Kobe.
Ship's timbers	1		3,365	Pensacola	Callao.
Coke	1	1	1,861	Philadelphia .	Valnarajan.

FROM PACIFIC TO ATLANTIC.

Commodity.	No. of cargoes.	Tons.	Total tons.	From-	То—
Nitrate	3	21,100		Taltal	Wilmington, N. C.
Nitrate	2	17,730		Iquique	Wilmington, N. C.
Nitrate	1	8,083		Pisagua	Wilmington, N. C.
Nitrate	1	6,720		Tocopilla	Wilmington, N. C.
Nitrate	1	3,500		Antofagasta	Wilmington, N. C.
Nitrate	1	2,638		Mejillones	Wilmington, N. C.
Nitrate	1	12,037		Caleta Buena	Charleston, S. C.
Nitrate	1	11,033		Tocopilla	Charleston, S. C.
Nitrate	1	11,000		Caleta Colosa	Charleston, S. C.
Nitrate	1	10,100	1	Antofagasta	Charleston, S. C.
Nitrate	1	9,000		Iquique	Charleston, S. C.
Nitrate	1	12,860		Mejillones	New Orleans.
Nitrate	1	8,041		Taltal	New Orleans.
Nitrate	1	3,750		Salaverry	New Orleans.
Nitrate	1	3,710		Talcahuano	New Orleans.
Nitrate	2	17,800		Iquique	Savannah, Ga.
Nitrate	1	9,150		Tocopilla	Savannah, Ga.
Nitrate	1	8,850		Antofagasta	Norfolk.
Nitrate	1	8,600		Iquique	Norfolk.
Vitrate	1	6,400		Taltal	Norfolk.
Vitrate	1	3,861		Iquique	Philadelphia.
Vitrate	1	3,100		Caleta Colosa	New York.
Vitrate	1	3,014		Junin	Baltimore.
Vitrate	2	5,410		Mejillones	Matanzas, Cuba.
Vitrate	1	3,000		Iquique	Matanzas, Cuba.
Vitrate	1	7,600		Mejillones	Alexandria, Egypt.
Vitrate	1	7,409		Antofagasta	Alexandria, Egypt.
litrate	1	7,200		Caleta Buena	Alexandria, Egypt.
litrate	1	7,072		Iquique	Liverpool, England.
litrate	1	7,000		Mejillones	Liverpool, England.
itrate	1	9,856	256,624	Caleta Colosa	Amsterdam, Netherlands.
lour	3	16,469		Tacoma	New York.
lour	2			San Francisco	New York.
lour	2	13,444		Portland	New York.
lour	1	7,818		Seattle	New York.
lour	1	7,566		Astoria	New York.
lour	1	7,582	68,414	Tacoma	Alexandria, Egypt.
ood products:		1	. ,		michanara, 267 pa
Cold storage	1	7,433		Wellington	London.
Cold storage	1	6,000		Auckland	London.
Cold storage	1			Sydney	London.
Rice	1	7,139		Saigon	Cuba.
Rice	1	2,421	28,548	San Francisco.	Habana, Cuba.
opra	1 .		5,800	Sydney	London.
umher	1	3,158		Portland	Nuevitas, Cuba.
umber	1	1.660	4,818	Seattle	Nuevitas, Cuba.
anganese ore	ī l.	2,000	3,025	Coquimbo	Baltimore.

## LATIN-AMERICAN TRAFFIC.

Commercial vessels through the Canal en route to the west coast of Central and South America were classified as follows:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
United States British Dutch Peruvian Italian Norwegian Chilean	29 22 3 3 2 2	124,354 65,493 19,693 12,682 13,793 9,117 7,612	83,409 39,300 12,592 7,014 8,103 5,740 4,560	96,824 50,586 17,716 8,312 9,204 6,782 6,043	Tons. 103,118 42,523 700 1,708 100 12,375 639
Total	63	252,744	160,718	195,469	161,163

Of the 63 vessels above, 11 were in ballast; 7 from United States ports, 2 from Cristobal, 1 from Germany, and 1 from Cuba. Of the 52 laden vessels, 21 were from United States ports, 10 with 46,283 tons of coal, and 11 with 50,779 tons of mixed cargo; 17 from Cristobal with 7,808 tons of general cargo; 8 from Mexican ports with 67,045 tons of fuel oil; and 6 from European ports with 9,248 tons of general cargo. Four of the laden vessels aggregating 8,565 tons, Panama Canal net measurement, with 6,500 tons of case oil and 1,500 tons of general cargo, were routed to Central American ports; the remaining 59 vessels were bound to South American west coast ports.

The Latin-American traffic from the west coast of Central and South America for May is classified in the following tabulation:

Nationality.	No. of ships.	Registered gross tonnage.	Registered ret tonnage.	Panama Canal net tonnage.	Cargo.
United States British Norwegian Peruvian Chilean Dutch ftalian	3	186,242 105,962 18,084 12,468 10,341 11,269 10,343	124,000 65,577 10,853 6,677 6,193 7,144 6,308	145,697 81,890 13,824 7,845 8,518 10,975 7,832	Tons. 208,035 87,323 17,549 4,953 3,037 16,856 5,829
Total	77	354,709	226,752	276,631	343,582

Seven of the above vessels, all oil tankers, were in ballast. Seventy-four per cent of the total cargo consisted of nitrate. Four vessels with a total Panama Canal net tonnage of 4,805, carrying 6,275 tons of cargo, were from Central American ports, the remainder were from South American west coast ports.

The registry of the vessels engaged in this northbound traffic for May, the kind and quantity of the cargo handled, and its destination are shown in the following

statement:

No. vessels	Registry.	Tons eargo.	Commodity.	Total commodity	Destined to—
23 2 1 1 6 1 1 3 2 2 4 2 1 1 1 2 1 1 2 1 1 1 1 2 1 1 1 1	United States Norwegian British Dutch United States British Chilean Peruvian British British British British British British British British British British British United States United States United States United States	11,902 7,500 7,000 23,950 3,472 11,196 3,037 3,615	Nitrate Nitrate Nitrate Nitrate Nitrate General General General General General General General General Nitrate Barley General General General General Ballast Ballast Ballast	202,077 27,422 17,848 26,374 14,072 2,500 1,338 5,829 6,647 9,856 22,209 5,410 3,000.	United States ports. United States ports. United States ports. United States ports. United States ports. United States ports. United States ports. Cristobal. Cristobal. Cristobal. United Kingdom. United Kingdom. United Kingdom. United Kingdom. United Kingdom. Genoa, Italy. Norway. Norway. Netherlauds. Alexandria, Egypt. Cuba. Cuba. Mexico. Mexico.
77				343,582	

Sixty-four of the vessels passing through the Canal this month were under direct control of the United States Shipping Board, combining a total Panama Canal net tonnage of 250,509 and carrying 332,471 tons of cargo. Twenty-six were south-bound with 109,731 tons of cargo; 38 were northbound with 222,740 tons of cargo.

# PRINCIPAL TRADE ROUTES.

Separate statements attached show the ports of origin and destination for all cargo through the Canal this month (*see* pages 684, 685, 686, and 694). The tabulation below gives the distribution according to the principal trade routes.

	Total vessels.			Vessels in ballast.	
ı	Ves- sels.	Panama Canal net tonnage.	Cargo.	Ves- sels.	Panama Canal net tonnage.
Atlantic to Pacific. United States to west coast of South America. United States to Far East. United States to Far East. United States to Australia and New Zealand. Mexico to west coast of South America. United States coastwise. Europe to west coast of South America. Europe to Australia and New Zealand. Mexico to west coast of South America. Europe to Australia and New Zealand. Mexico to west coast of United States. Europe to west coast of United States. Europe to west coast of United States.	15 9 8 7 6 3 2 2	87,855 27,824 81,188 40,678 40,339 28,900 28,910 14,491 11,881 6,274 3,756	70,562 6,698 117,149 54,222 28,205 8,858 17,230 19,700 5,044 3,589	7 21 1 1 1	30,131 5,436 

,		Total vess	sels.		sels in last.
	Ves- sels.	Panama Canal net tonnage.	Cargo.	Ves- scls.	Panama Canal net tonnage.
Atlantic to Pacific—Continued. Cristobal to west coast of Central America. United States to Central America. Mexico to Far East. United States to British Columbia. Europe to Central America. Cuba to west coast of South America.	2 1 1 1 1 1	1,398 4,209 4,116 3,047 2,958 1,976	1,110 6,500 6,761 5,615 390	1	1,976
Total.  Pacific to Atlantic.  West coast of South America to United States.  West coast of South America to Eristobal.  West coast of South America to Europe.  United States coastwise.  Australia and New Zealand to Europe.  West coast of South America to Mexico.  Far East to east coast of United States.  Australia and New Zealand to United States.  West coast of United States to Cuba.  West coast of United States to Cuba.  West coast of South America to Egypt.  West coast of South America to Europe.  West coast of South America to Cuba.  West coast of United States to Tuba.  West coast of United States to Tuba.  West coast of United States to Testobal.  West coast of United States to Testobal.  West coast of United States to Testobal.  West coast of United States to Egypt.  Far East to Cuba.  British Columbia to Mexico.  West coast of United States to Tubied Kingdom  West coast of United States to Tubied Kingdom  West coast of United States to Tubied Kingdom  West coast of United States to Tubied Kingdom  West coast of United States to Tubied Kingdom  West coast of United States to Tubied Kingdom  West coast of United States to Tubied Kingdom  West coast of United States to Tubied Kingdom  West coast of United States to Tubied Kingdom  West coast of United States to Tubied Kingdom  West coast of United States to Tubied Kingdom	105 34 15 11 9 7 7 5 4 4 4 3 3 3 2 2 2	388,990  138,261 23,989 32,451 40,287 45,171 38,468 21,449 18,673 11,456 13,911 11,738 4,746 2,143 10,653 3,756  5,272 5,051 4,798 4,391 2,662 2,459 1,659	418,678  229,499 15,049 62,140 60,832 39,410  31,658 23,562 15,050 22,209 19,295 8,410 2,799  3,206  7,582 7,139 3,476 2,695 2,230	13 7 7 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	46,486 38,468 406 10,653 5,272 4,391
Total	119	463,435	556,241	12	59,190

# SERVICES TO CANAL SHIPPING.

Miscellaneous repairs were made on 103 vessels at Balboa and Cristobal shops during the month; 56 at Cristobal and 47 at Balboa; 19 vessels were dry-docked, 12 at Cristobal and 7 at Balboa. Bunker coal aggregating 37,131 tons was supplied to 115 commercial vessels; 33,784 tons to 98 vessels at Cristobal, and 3,347 tons to 17 vessels at Balboa. Sixty-nine commercial vessels were furnished a tot... of 154,735 barrels of fuel oil; 49 with 102,553 barrels at Cristobal, and 20 with 52,182 barrels at Balboa. There were 303 vessels supplied with 13,149,742 gallons of water; 188 with 9,845,242 gallons at Cristobal, and 115 with 3,304,500 gallons at Balboa. Sales of commissary supplies to commercial ships other than those of the Panama Railroad Steamship Line totaled \$109,836.89, including \$5,406.58 for laundry service; these sales having been made to 160 vessels at Cristobal in the amount of \$76,128.45, and to 83 vessels at Balboa in the amount of \$3,708.44. Charges for tug service to vessels using the Canal and the terminal ports totaled \$24,419.50, of which \$13,649 was collected at Cristobal, and \$10,770.50 at Balboa.

# STATEMENT OF OPERATIONS.

Details of the business transacted at the Canal terminals are included in the following tabulation:

Item.	Cristobal.	Balboa.	Total.
Commercial ships making transit of Canal. Net tonnage of commercial ships, Panama Canal measurement. United States equivalent net tonnage of commercial ships. Registered gross tonnage of commercial ships. Cargo through Canal in commercial ships, tons of 2,240 pounds. Deck load cargo, included in above, tons.	105 388,990 314,728 490,765 418,678 1,303	119 463,435 379,867 590,697 556,241 955	224 \$52,425 694,595 1,081,462 974,919 2,258
Nationality of commercial ships through the Canal:  British. Chilean Dutch Italian Japanese Norwegian	36 2 3 2 4 2	39 3 2 2 2 2 5	75 5 4 6 76
Peruvian Swedish United States	1 52	1 62	114
Total	105	119	224

Item.	Cristobal.	Balboa.	l Total.
Panama Canal net tonnage of commercial ships through the Canal: British.	120,508	146,831	267,339
Chilean. Dutch	6,043 17,716	8,518 10,975	14,561 28,691
Italian	9,204	7,882	17,086
Japanese	16,434	10,326	26,760
Norwegian Peruvian	6,782 8,312	19,451 7,845	26,233 16,157
Swedish	4,089	5,051	9,140
United States	199,902	246,556	446,458
Total. United States equivalent net tonnage of commercial ships through the Canal:	388,990	463,435	852,425
British.	93,747	119,109	212,856
Chilean	3,675	5.237	8,912
Dutch Italian	13,707 7,049	7,010 5,985	20,717 13,034
Japanese	14,712	8,642	23,354
Norwegian Peruyian	5,771 5,703	16,645 4,655	22,416 10,358
Swedish	2,248	4,618	6,866
United States	168,116	207,966	376,082
Total.  Registered gross tonnage of commercial ships through the Canal:	314,728	379,867	694,595
Registered gross tonnage of commercial ships through the Canal: British	150,240	187,265	337,505
Chilean	7,612	10,341	17,953
Duteh Italian	19,693 13,793	11,269 10,343	30,962 24,136
Japanese	21,419	13,709	35,128
Norwegian Peruvian	9,117 12,682	25,177 12,468	34,294 25,150
Swedish	3,767	5,765	9,532
United States	252,442	314,360	566,802
Total	490,765	590,697	1,081,462
British.	93,665	117,134	210,799
Chilean	4,560	6,193	10,753
Dutch. Italian	12,592 8,103	7,144 6,308	19,736 14,411
Japanese	14,492	8,547	23,039
Norwegian	5,740 7,014	15,332 6,677	21,072 13,691
Swedish	2,865	3,541	6,409
United States	166,253	208,778	375,031
Total	315,284	379,657	694,941
British	134,632	145,674	289,306
Chilean. Dutch	639 700	3,037 16,856	3,676 17,556
Italian	100	5,829	5,929
Japanese '	22,861 12,375	17,772 26,649	40,633 39,024
Peruvian	1,708	4,953	6,661
Swedish. United States.	5,044 240,619	7,582 327,889	12,626 568,508
		321,000	
Total Tolls levied against commercial ships, by nationality:	418,678	556,241	974,919
British	\$116,974.85	\$143,184.57	\$260,159.42
Chilean Dutch	4,593.75 15,026.98	6,546.25 8,762.50	11,140.00 23.789 48
Italian	8,811.25	7,481.25	11,140.00 23,789.48 16,292.50 28,878.40
Japanese. Norwegian.	18,075.90 7,213.75	10,802.50 18,923.40	28,878.40 26,137.15
Peruvian	7,128.75	5.818.75	12,947.50
Swedish. United States.	2,810.00 201,632.36	5,772.50 244,869.33	8,582.50 446,501.69
Total  Vessels passing through the Canal free of tolls:	\$382,267.59	\$452,161.05	\$834,428.64
U. S. Navy colliers.	3		3
U. S. Navy colliers. U. S. Navy suchiers. U. S. Navy subchaser U. S. Navy subchaser U. S. Navy subchaser U. S. Army transport. Merchant ships with coal for U. S. Navy.		1 1	1
U. S. Navy eagle boat.		1 1	1 1
Merchant ships with coal for U. S. Navy	1	1	1
Total	1	4	8
Yachts, ocean-going, through the Canal		2	2
Net tonnage of above, Panama Canal measurement		472	472
Total ocean-going ships passing through the Canal	109	123	232
Net tonnage of above Panama Canal measurement	3 12		3 12
Total vessels and craft passing through the Canal.	112	125	237

Item.	Cristobal.	Balboa.	Total.
Cargo on which no tolls were charged	30,562 13	12	30,562 25
Net tonnage of above, Panama Canal measurement	46,486	59,190	105,676
Net tonnage of above, Panama Canal measurement.	4,427	10,054	14,481
Net tonnage of above, Panama Canal measurement. Tolls levied on laden ships through the Canal. Tolls levied on ships in ballast. Tolls levied on displacement tonnage.		1,699 3409,544.25 42,665.55	3,884 \$758,161.45 76,315.94
Tolls levied on displacement tonnage	10.15		10.15
Total tolls levied	\$382,277.74 269 273	\$452,209 80 250 252	\$834,487.54 519 525
Total ships handled	542 869,860 886,761	502 762,762 752,665	1,044 1,632,622 1,639,426
Total for vessels entering and clearing Registered gross tonnage of vessels entering port	1,369,438	1,515,427 1,187,899 1,173,795	3,272,048 2,557,337 2,564,688
Total for vessels entering and clearing.  Vessels entering port but not passing through the Canal	2,760,331	2,361,694	5,122,025 64
Net tonnage of above	.1 186.846	16,285 25,482	203,131 332,980
Gross tonnage of above.  Vessels clearing port but not passing through the Canal.  Net tonnage of above.  Gross tonnage of above.  Vessels passing through Canal, and handling passengers or cargo at port,	174,520 287,585	15,432 24,793	189,952 312,378
entering.  Net tonnage of above.  Gross tonnage of above.  Vessels passing through Canal, and handling passengers or cargo at port.	79,051	50 103,826 169,713	85 182,877 302,185
vessels passing through Canat, and nanding passengers of cargo at port, clearing.  Net tonnage of above.  Gross tonnage of above.  Transit cargo arriving. tons.  Transit cargo eleared. tons.	107,174 178,411 981,081	49 101,263 166,862 999,837 1,003,679	91 208,437 345,273 1,980,918 2,016,409
Total transit cargo tons. Local cargo arriving tons. Local cargo shipped tous.	. 73,627	2,003,516 42,441 7,611	3,997,327 116,068 12,050
Total local cargo handled	33,202 35,331 1,047,798 1,052,500 52,690 37,448	1,049,1 1,042,769 1,012,297 7,021 6,676	128,118 33,693 36,338 2,090,567 2,064,797 59,711 44,124 7,379
Total cargo handled by Receiving and Forwarding Agency of	94,319	16,895	111,214
P. R. R. tons.  Cargo steveuored, included in above. tons.  Commercial vessels, other than P. R. R. supplied with bunker coal,  Coal supplied above vessels. tons.  Panama Railroad vessels supplied with bunker coal.	39,183 91 32,414	3,347	39,909 108 35,761
ranama Kairoad vessels supplied with ounker coal.  Coal supplied above vesselstons.  U. S. Army vessels supplied with coal	1,370		1,370
Coal supplied above vessels tons.  Total vessels supplied with coal from Panama Railroad deposits.	5,504 103	401	5,905 121
Total coal furnished above vesselstons.	39,283	3,748	43,036 546
Coal supplied Army, excepting vessels. tons. Coal supplied The Panama Canal tons. Coal supplied individuals and companies. tons	214 1,448 411	873	. 214
Total coal furnished from Panama Railroad deposits	41,907	4,621 1,582	46,528 32,944
Coal on hand, June 1, 1920tons	*62,714	L	. 62,714
Coal on hand, May 1, 1920tons Coal furnished U. S. Navy, Including vesselstons Coal received during Maytons Coal received during Maytons	1 523	2,570	3,097 8,994
Coal received during May, Including vessels Coal received during May. tons Coal on hand, June 1, 1920. tons Coal on hand May 1, 1920. tons Commercial vessels, other than P. R. R., supplied with fuel oil from Panam Canal tanks.	65,420		97,079
Canal tanks Fuel oil sold to above vessels Fuel oil sold to Panama Railroad vessels barrels barrels	07,02.	2 52,182	142,104
Fuel oil issued to U. S. Navy. barrels Fuel oil issued to U. S. Army barrels	300	54	306
Fuel oil issued to Canal departmentsbarrels Fuel oil sold to individuals and companiesbarrels	5,103	35,570 7,133	40,673
Total fuel oil furnished from Panama Canal tanks barrels.	109,202	94,939	204,14

^{*1,582} tons transferred from Cristobal to Balboa.

Item.	Cristobal.	Balhoa.	Total.
Fuel oil received during the month.     barrels.       Fuel oil on hand June 1, 1920.     barrels.       Fuel oil on hand May 1, 1920.     barrels.       Fuel oil pumped for individuals and companies     barrels.       Diesel oil issued during the month.     barrels.	121,886 80,771 68,087 163,013	149,773 68,108 *13,274 104,837 27	271,659 148,879 81,361 267,850 27
Fuel oil on hand May 1, 1920. barrels. Fuel oil on hand May 1, 1920. barrels. Fuel oil pumped for individuals and companies barrels. Diesel oil issued during the month. barrels. Diesel oil on hand June 1, 1920. barrels. Vessels supplied with water. Water sold to ships. gallons Vessels on which miscellaneous repairs were made. Vessels dry-docked.	188 9,845,242 56 12 160	†1,154 115 3,304,500 47 8 83	†1,154 303 13,149,742 103 20 243
Vessels dry-docked.  Commercial vessels furnished commissary supplies. P. R. R. vessels furnished commissary supplies.  Other U. S. Government vessels furnished commissary supplies.		13	11 28
Total vessels furnished commissary supplies	186	96	282
lce. Wholesale groceries. Wholesale cold storage. Laundry. Miscellaneous.	\$2,241.95 15,804 37 48,996.38 5,406.58 3,679 17	\$714.60 5,456.76 25,826 17 1,710.91	\$2,956.55 21,261.13 74,822.55 5,406.58 5,390.08
Total	\$76,128.45	\$33,708.44	\$109,836.89
lce Wholesale groceries Wholesale eold storage Laundry Miscellaneous	\$113.60 2,207.10 7,321.06 1,227.90 523.09		\$113.60 2,207.10 7,321.06 1,227.90 523.09
Total	\$11,392.75		\$11,392.75
lee. Wholesale groeeries. Wholesale groeeries. Wholesale groeeries. Laundry. Miscellaneous.	\$321.08 2,550.40 10,892.69 1,333.00 2,597.73	\$105.63 13,117.25 9,490.73 14.61 3,893.94	\$426.71 15,667.65 20,383 42 1,347.61 6,491.67
Total	\$17,694.90	826,622.16	\$44,317.06
Total commissary sales to all vessels	105,216.10	60,330.60	165,546.70
First eabin. Other thao first eabin.	3,153 6,976	2,744 5,624	5,897 12,600
Total. Passengers departing including transit passengers:	10,129	8,368	18,497
Total. Passengers departing, including transit passengers: First cabin. Other than first cabin.	2,990 3,684	2,418 5,503	5,408 9,187
Total. Total movement of passengers. Passengers disembarking: First cabin	6,674 16,803	7,921 16,289 463	14,595 33,092 2,049
First cabin Other than first cabin	786	171	957
Total.  Passengers embarking:  First cabin	2,372 1,675	634	3,006 1,812
First cabin Other than first cabin		50	1,528
Total	3,153	187	3,340
Seamen shipped. Seamen paid off. Seamen deserted. Seamen deceased. Seamen lodged, and subsisted. Seamen repatriated. Wages of American seamen:	295 11	129 1	424 12
Seamen lodged, and subsisted Seamen repatriated Wages of American seamen:	37 36	14 3	51 39
Total amount earned  Deductions approved by Depaty Shipping Commissioners  Balance due seamen  Paid to seamen  Beneived on deposit for seamen	\$19,578.80 6,108.30 13,470.50	\$11,688.22 3,255.05 8,433.17 6,932.87 42,075.30	\$31,267.02 9,363.35 21,903.67 11,529.57 10,949.10
Services to American vessels: Crews shipped. Crews paid off. Shipping articles written Marine notes of protest noted. Bills of health issued.	2 2 2 2 17	9	2 2 2 26
Bills of health issued Clearances issued	145 157	125 121	270 278

^{*}A revised statement of the General Storekeeper corrects the balance of fuel oil on hand at Balboa, May 1, 1920, from 13,214 barrels to 13,274 barrels.

† A revised statement of the General Storekeeper corrects the balance of Diesel oil on hand at Balboa, May 1, 1920 from 1,211 to 1,181 barrels.

^{\$}Includes \$575 repatriation deposits and money left for safe-keeping.

#### LOCK OPERATION.

Lockages of commercial vessels for May were as follows:

	Number of lockages.			Number of vessels.		
	North	South	Total	North	South	Total
Gatun		95 102	210 219	124 120	110 105	234 225
Miraflores	115	101	216	120	105	225

Total lockages, including Army and Navy vessels, those of the Panama Railroad and The Panama Canal, are combined in the following statement for the month:

Lockages.	Gatun.	Pedro Miguel.	Miraflores.
Commercial Noncommercial, Army and Navy Noncommercial, Canal equipment	210 11 3	219 10 21	216 11 18
Total Vcsse!s.	224	250	245
Commercial Noncommercial, Army and Navy Noncommercial, Canal equipment	234 18 10	225 21 48	225 25 47
Total	262	294	297

The total consumption of water for lockages for May was 1,485,140,000 cubic feet. The consumption by locks was as follows:

	Gatun.	Pedro Miguel.	Miraflores.
Leakage. Maintenance.	20,000,000	Cubic feet. 696,200,000 18,300,000 61,980,000	Cubic feet. 740,710,000 15,000,000 4,920,000
Total	808,940,000	776,480,000	760,630,000

# METEOROLOGY.

Rainfall for the month was below normal, 14 stations showing the lowest May rainfall on record. Rainy season conditions began about the 15th of the month. The estimated May rainfall over the Gatun Lake watershed was 6.18 inches, compared with a 10-year mean of 11.90 inches; and 5.92 inches over the Chagres River basin above Alhajuela, compared with a 19-year mean of 12.49 inches. The Chagres River discharge at Alhajuela was 79 per cent below the 19-year May average, or 491 c. f. s., against a mean of 2,292 c. f. s., and furnished 34 per cent of the Gatun Lake total yield. The discharge for this month is the lowest May record in 19 years; the maximum May discharge was 5,220 c. f. s. in 1910.

The Gatun Lake watershed total yield was the lowest May yield on record, being 72 per cent below the 10-year mean, or 1,440 c. f. s., against a 10-year mean of 5,075 c. f. s. The maximum May total yield of Gatun Lake was 8,665 c. f. s., in 1918, and the minimum total yield was 1,440 c. f. s. this month. The maximum May net yield was 7,964 c. f. s. in 1918; the minimum May net yield was 606 c. f. s. this year. There was a decrease in storage of 2,539,000,000 cubic feet, very nearly equal to the amount of water consumed by the Gatun hydroelectric plant. The lake varied from a maximum elevation of 82.40 on the 1st to a minimum elevation of 81.65 on the 28th, ending on the 31st at elevation 81.80.

## ELECTRICAL DIVISION.

Gatun hydroelectric station—This station operated without service interruption throughout the month. Auto transformer on Unit No. 2 failed on May 2 and was dismantled for repairs; this incident causing no interruption in service. The gross output of the station for May was 3,027,400 KWH, the computed water consumption being 2,501,305,000 cubic feet.

Miraflores steam plant—This station carried a load of 3,000 KW during practically all of the month. The gross output of the plant was 2,300,440 KWH on an oil con-

sumption of 13,146 barrels.

Total power output—The total gross output of both stations was 5,327,840 KWH; the total power distributed to consumers was 4,685,090 KWH, the total loss of power in plant auxiliaries, transmission, and transformation being 642,750 KWH, or 12.06 per cent of the gross output.

Transmission line—There were no interruptions to transmission line service during the month. The work of taking the insulator resistance readings on all of the transmission line insulator units was completed; 1,915 units were found to test below 2 megohms, and were marked for replacement.

Substations—All of the substations were operated throughout the month without unusual incidents. Considerable work was accomplished in filtering oil in high tension circuit breakers, and samples of insulation oils were taken at all substations.

New construction work—Construction work performed for the Army and Navy is separately reported. Work for The Panama Canal had reached the following status of completion at the end of the month:

Per	cent
compl	eted.
Installation of new battery at Miraflores substation.	100
Installation of 4 K-5 switches at Miraflores substation	*62
Installation of two 1,000-ampere, K-13 switches, Cristobal substation	80
Installation of new 8,400 KVA transformer and 3 new tie-line equipments, Gatun substation	*8
Installation of 2 complete feeder equipments, Balboa substation	95
	93
*No work done.	

Marine work—Miscellaneous repairs and installations of electrical equipment were made on 58 vessels during the month; 22 at Cristobal, and 36 at Balboa.

# SHOP, FOUNDRY, AND DRY DOCK WORK.

For the first time in 2 years no large marine job involving the reconstruction of a ship has been in progress at the Balboa plant of the Mechanical Division. The marine work has been confined to routine overhauls and repairs or repairing breakdowns. Practically the same conditions have prevailed at the Cristobal plant.

A new intermediate piston was manufactured and installed on the Japanese steamship Kifuku Maru at the Balboa shops. This was a rush job necessitating a night force for the work, and was completed in considerably less time than estimated by the surveyor. Repairs to the reduction gears of the steamship Dewey were completed. The United States torpedo boat destroyer Thornton was dry-docked to repair damages to the starboard propeller which had been encountered through touching the bank while transiting the Canal. The ends of the blades were turned back through half of a circle; the blades were straightened and brought back to the original surface; cracks were welded; and the broken tips of 2 blades repaired by casting new metal into a mold at the end of the tips in such manner that it fused with the old metal. The propeller was balanced and replaced; a message received from the vessel after departure from the port stating that the repaired propeller was performing very satisfactorily. The salvaging of the steamships Olockson and Marne was completed during the month and these vessels are now lying awaiting the disposition of the United States Shipping Board.

The semiannual overhauling of the machinery of the U. S. mine planter Graham, including cleaning and painting the hull, was completed at the Cristobal shops. General repairs were made to the boilers, engines, and auxiliaries of the tugs Engineer and Tavernilla. The steamship Caribbean was dry-docked and the boilers, engines, pumps, and other auxiliaries overhauled for the annual inspection. Various repairs were made on the steamship Balboa; the donkey boiler was removed, the coal bunkers renewed, stern bushing rewooded, and power auxiliaries generally overhauled. The struts, shafts, engines, and hull of the U. S. subchaser 285 were repaired; and the damaged plates, angles, and other parts of the U. S. S. R-24 renewed. Repairs were made on the refrigerating machinery, windlass, and pumps of the U. S. A. T. Mt. Vernon, and a new crank shaft for the ice machine of the steamship Lake Elkwater was made. All the boiler valves, fuel-burning system, condenser, winches, and pumps of the latter vessel were overhauled. The following vessels received miscellaneous repairs at Cristobal: U. S. S. Eagle No. 31, R-24, subchaser No. 285, Sciota, U. S. A. T. Mt. Vernon, barge No. 53, U. S. mine planter Graham, steamships, Alismaar, Allianca, Advance, Acajutla, Achilles, Balboa, Battovville, Belfort, Bologna, Botsford, Calanares, Caribbean, Cartagen, Cartagen, Cartage, Cauca, Chinampa, Colon, Europa, General Goethats, General Gorgas, Guatemala, Haiti, Hawarden, Huallaga, Lake Elkwater, Lake Fithian, Lake Larga, Lake Lesa, Larne Crynssen, Mantaro, Marne, Montevideo, Newport, Nika, Panama, Pansday, Parismina, Pasadena, Poleric, Robin Adair, San Juan, Sudbury, Ulua, Ulysses, Urubamba, Van Rensselaer, Watonwan, West Carnifax, and Zacapa; schooner Laura C. Hall, yacht Louise; tugs Engineer, Sanidad, and Tavernilla; launches Activo, Eunice, and Pequini, barges Nos. 19, 29, and Darien, P. S. N. Co. barge S. Twelve vessels were dry-docked; U. S. S. Eagle No. 31, subchaser No. 285, barge No. 53, steamships Balboa, Caribbean, and Cartagena

The following vessels were repaired at Balboa shops and dry dock: U. S. S. Eagle No. 57, Gen. Geo. W. Getty, subchasers Nos. 284 and V-12, Sciota, Tacoma, and Thornton No. 270, cable steamer Guardian, yacht Gloriana, dredge Culebra, launch Vacuum, barges A. L., and No. 226, scows No. 139 and 140; steamships Anyo Maru, Anyox. Bearport, Caddo, Cajacet, Cansumset, Cathwood, Cerro Gordo, City of Para, Coalinga, Crisfield, Dewey, Eastern Cross, Eastern Ocean, Eastern Victor, Edgecombe, Edna, Gen. W. C. Gorgas, J. A. Bostwick, Jamaica, Joan of Arc, John Adams, Kenkon Maru, Khakatane, Kifuku Maru, Lady Sybil, Lake Flynus, Lake Gebhart, Northumberland, Olockson, Peru, Point Judith, Potosi, Rajah, San Joaquin, S. V. Harkness, and Wm. Henry Webb, motorship Ansaldo San Gorgio II. Eight vessels were dry-docked; U. S. S. Gen. Geo. W. Getty, Sciota, subchaser V-12, Thornton No. 270; steamship Peru; barge No. 226, scows Nos. 139 and 140.

The foundry output of the Mechanical Division in patterns and castings for May, as compared with April, is shown below: ton No. 270, cable steamer Guardian, yacht Gloriana, dredge Culebra, launch Vacuum,

	May.				April.	
Iron	3	Castings. 1,055 568 1,370				Pounds. 76,801 48,683 14,388
Total	67	2,993	197,356	54	4,191	139,872

The ordinary repair and maintenance work of this division for the month included, among other items, the following:

among other result,		2 060
Core repaired		2,000
Locomotives and cranes repaired	-d -ud imposted	3.705
Passenger coaches packed, cleaned, on	ed, and inspected	415
P 11 sepested		013
T heatlad		1,024
Locomotives nostieu		178
Cranes hostled		68
Locomotives ridden		
T impropted		83
Locomotives inspected.	ves	21
Crews instructed in handling locomoti	ves	29
Crews instructed in oil and fuel econo	my	13
a instance in oir brakes		
Crews mistructed in an ordine		26
Cranes, locomotive, inspected		
	THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CONTEMP OF THE CO	

#### BUILDING CONSTRUCTION.

The Building Division had brought the following different items of construction work to the completion indicated, on May 31: Per cent

Com	pleted.
Colon stables:	
East half— Six stables	(*) †85
One latrine	185
Feed room and quarters	95
Deposit pits	195
Deposit pits	• • • •
West half— Six stables	60
Six stables	40
Five wagon sheds	
One feed room	†5 †5
One shop building	10
Silver townsite, Mt. Hope:	75
	100
m 1 married quarters	500
m 1 manufactors	80
m t manual quarters	
m 1 manual quarters	75
m . 1 married quarters	65
m toward cuarters	60
m 1 manual anarters	40
to 1 married anarters	30
m t manufod quarters	15
m t manufod outstore	10
Two houses, married quarters	7
	(‡)
	95
	60
	20
Royal Mail Steam Packet Company's office, Cristobal	90
Moving 3 type-7 houses from Las Cascalas to New Clistobal.  Oil tank (55,000 barrels capacity), Cristobal	95
Oil tank (55,000 barrels capacity), Cristopal	100
Oil tank (55,000 barrels capacity), Cristobal Shed over roadway and cattle pen, abattoir	100
Shed over roadway and cattle pen, abatton.  Playshed, New Cristobal	95
	10
Alterations, Cristobal clubnouse.  Ten-stall addition to garage, New Cristobal.	20
	15
	25
	75
	20
	95
Alterations, Balboa clubhouse	93
attending but the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the	d.

·	Per cen complete	
Alterations, Ancon restaurant		90 75
Moving 3 type-7 houses from Las Cascadas to Pedro Miguel		85
Moving 2 four-family quarters, Las Cascadas to Quarry Heights		2
Moving garage, Las Cascadas to Pedro Miguel		88
TO 11 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1

Building construction work performed for the Army and Navy is separately reported.

DREDGING DIVISION.

Cucaracha slide was periodically active throughout the month. Two dipper and 1 suction dredges working continuously removed 427,900 cubic yards of earth and rock from the slide area, leaving at the end of the month 143,800 cubic yards between stations 1805 and 1814. A channel varying from 150 to 175 feet in width with a minimum depth of 34 feet was maintained during the month with slight interference to Canal traffic. On May 31 the dredges had removed a total of 1,027,500 cubic yards of earth and rock since the slide of February 22, 1920. The drill boat Teredo No. 2 was engaged throughout the month in drilling and blasting large boulders at Cucaracha slide; and graders Nos. 1 and 3 also working continuously during the month sluiced approximately 48,900 cubic yards from the slide. East Culebra and Barge Repair slides showed no movement in May.

The total excavation by dredges during May was 575,564 cubic yards, as follows:

Cubic yards.		Classifi	ed as—	Character	Stations.	Equipment
		Earth.	Rock.	of work.	ovations.	Edubment
(a) (a) (a) (a) (b) (b) (b) (c)	202,600 183,200 34,600 7,500 70,000 4,000 51,000	60,800 55,000 13,900 3,000 70,000 51,000 Sand and gravel. 22,664	141,800 128,200 20,700 4,500	Maintenance Maintenance Maintenance Maintenance Maintenance Maintenance Maintenance Maintenance Aux. construction	Cucaracha Slide.  1804-00 to 1814-00 E. and W. 1812-00 to 1818-00 E. and W. 1812-00 to 1818-00 E. and W. 1812-00 to 1818-00 E. and W. 1812-00 to 1814-00 E.  Pacific Entrance. 2110-80 to 2131-50 E. 2131-50 to 2137-50 E.	Cascadas. Gamboa. No. 85. No. 84. No. 84. No. 84. No. 83.
	575,564	276,364	299,200			

(a) Gaillard Cut.

(b) Pacific Entrance.

(c) Chagres River.

575,564

The excavated material was dumped as follows:

	Cubic yards.
Gatun Lake north of Gamboa	346,600
Canal north of Gold Hill	., 39,200
Canal south of Cucaracha Slide.	42.100
Flats north of Arsenal fill	51,000
Arsenal fill at Corozal	74,000
Gamboa gravel plant	22,664

The following excavation remained to be done on June 1:

Location.	Earth.	Rock.	Total.
Gaillard Cut.	Cu., yds.	Cu. yds. 25,000	Cu. yds. 25,000
Pacific entrance	50,500	82,900	133,400
Total Canal prism	50,500	107,900 2,100	158,400 2,100
Cristobal coaling station. Balboa inner harbor.	109,850	13,400	123,250
Total, ocean to ocean	160,350	123,400	283,750

#### MUNICIPAL ENGINEERING DIVISION.

#### Northern District.

The Municipal Engineering Division had the following items of construction work under way on May 31 with completion as shown:

Per cent

Municipal work between 7th and 9th and "G" and "K" Streets, Colon:	completed	۵.
Roads	9	95
Grading. Water lines		30
77444		

^{*} No work done.

Municipal work between 7th and 9th and "G" and "K" Streets, Colon-Continued:	С	01	mp!	cent leted.
Alleyways Sanitary sewers.				98 99
Sidewalks				100 80
Grading				*15
Roads. Water lines. Sanitary sayers				95 70
Sanitary sewers. Storm sewers. Two tennis courts, Gatun.				*75 80 100
Road to garage. New Cristobal Installation of water and sewer system, new Panama Railroad station, Gatun				100
Construction of sidewalks on Lighthouse and Telephone Row, Gatun. Drilling wells at Chagres village.				10
* No work done. (†) Three wells sunk without finding water.	•		•	(1)

No work was done during the month on the municipal work for the new silver townsite, Mt. Hope, the ten 12-family silver quarters, Mt. Hope, or the road to the new incinerator, Mt. Hope. All work for the west half, Colon stables, has been completed with the exception of roads, these being 98 per cent completed.

# Southern District.

D. D. B. B. B. A. A.	completed.
Box sewer, Panama Railroad yards	. 75
Road from humber shed to Diable Hill	nn
Demolition of Calidonia bridge	. 90
No more was done on the start T 111 C11 11 NT 11	4

No work was done on the storm sewer, Javillo fill; the sewer, Northern Avenue to beach; the municipal work for 3 type-18 houses at Balboa; the concreting of the Panama Tramway line, Calidonia crossing, or installing of sewer and water lines for the Central and South American Telegraph and Cable Company's buildings at Balboa. There were 16,613 square yards of macadam road refloated, oiled, and sanded in the Pedro Miguel district, and 3,590 linear feet of water pipe was taken up and relaid. Construction work for the Army and Navy is separately reported.

The total output of all pumping stations for May was 834,064,350 gallons; and that of the 3 filtration plants, 509,616,000 gallons. The consumption for Panama City was 87,781,000 gallons, and that for Colon, 64,823,500 gallons. Sales of water to 188 vessels at Cristobal and 115 at Balboa totaled 13,149,742 gallons.

There were 2,709 tons of garbage and 15 dead animals consumed at the Gavilan Island incinerator during May. It is anticipated that the new incinerator at Cristobal will be placed in operation about August 1.

## WORKING FORCE.

# (Effective May 19, 1920.)

Department or Division.	Gold.	Silver.	Total.
Operation and Maintenance: Office Building Division. Electrical Division. Municipal Engineering Division.	37	42	79
	442	1,510	1,952
	256	321	577
	113	1,346	1,459
Lock operation. Dredging Division Mechanical Division Marine Division Fortifications.	166	591	757
	180	1,108	1,288
	1,054	1,788	2,842
	171	496	667
	53	238	291
Total Supply Department: Quartermaster Subsistence. Commissary Cattle Industry. Hotel Washington	2,472	7,440	9,912
	226	1,933	2,159
	37	398	435
	312	1,648	1,960
	29	980	1,009
	10	100	110
Total.	614	5,059	5,673
Accounting	261	10	271
Health Department	248	847	1,095
Executive Department	583	246	829
Total. Panima Raifroad: Superintendent. Transportation. Receiving and Forwarding Agent. Coaling Stations.	72 147 103 113	1,103 558 179 1,475 1,317	2,195 630 326 1,578 1,430
Total	435	3,529	3,964
Grand total	4,613	17,131	21,744

#### OCCUPATION OF QUARTERS.

Occupants of Panama Canal and Panama Railroad quarters on May 31 were classified as follows:

	Men.	Women.	Children.	Total.
Americans. Europeans. West Indians.	156	2,236 27 1,801	2,409 42 3,431	8,350 225 9,921
Total	8,550	4,064	5,882	18,496

#### PUBLIC HEALTH.

There were 34 cases of malaria in May, 13 of which were nonresident, with no deaths. Influenza cases totaled 40, as compared with 314 in April and 801 in March; 8 deaths occurred from influenza and 16 from pneumonia, as compared with 24 from influenza and 28 from pneumonia in April. Ten cases of chickenpox were reported for May; 44 for the preceding month. Three cases of typhoid fever were reported, the patients thought to have become infected at Las Sabanas. There were 6 cases of smallpox, 5 in the city of Panama and 1 nonresident. One case of leprosy and 1 case of scarlet fever were discovered, both in Panama.

#### RECEIPTS AND SALES OF MATERIALS AND SUPPLIES.

The total value of material ordered on United States requisitions and received during May was \$935,219.76; April receipts were \$754,085.60. Of the May receipts \$919,924.76 was chargeable to Operation and Maintenance; \$2,272.23 to Construction and Equipment; and \$13,022.77 to miscellaneous departments. The total cash sales on the Isthmus from storchouses and obsolete store amounted to \$367,600.96, of which \$365,371.51 was for stock material including fuel oil in the amount of \$321,825.34; \$1,249.51 for scrap; and \$979.94 for obsolete and second-hand material.

Sales of material from storehouses to steamships for May amounted to \$337,382.56, of which \$29,425.87 was for miscellaneous stock items and \$307,382.56 for fuel oil. Total sales of commissary supplies to all purchasers for the month amounted to \$1,114,634.44 made up as follows: To steamships other than United States Government vessels and those of the Panama Railroad Steamship Line, \$109,908.05; to The Panama Canal, \$133,441,32; to the United States Government, including the Army and Navy, \$176,523.94; to individuals and companies, mainly through charge accounts in the retail commissaries, \$25,715.78; to the Panama Railroad, including its steamships and the Hotel Washington, \$36,777.66; and to individuals purchasing coupons, \$632,267.69.

#### FINANCIAL RECEIPTS AND EXPENDITURES.

The cash balance in Canal appropriations on May 31, exclusive of Fortifications, was \$12,372,395.10; the balance in Fortifications was \$5,728,754,53. Payments from appropriations made by the Disbursing Clerk, Washington, amounted to \$479,713.02, and by the Paymaster on the Isthmus to \$1,668,341.86. Purchase of commissary books from the Panama Railroad Company amounted to \$368,390.84.

Collections of tolls on the Isthmus totaled \$828,476,21. Deposits of \$63,249 were made with the Assistant Treasurer of the United States to be applied in payment of tolls and other charges against vessels using the Canal. The total Panama Canal collections on the Isthmus were \$2,449,277.47; and collections by the Disbursing Clerk, Washington, \$139,877.48. Receipts from Canal Zone and miscellaneous funds were \$192,290.08; disbursements from the same source were \$238,052.25. May payrolls on the Isthmus totaled \$1,312,538.44, as compared with \$1,359,398.45 for April, a decrease for this month of \$46,860.01.

Respectfully,

CHESTER HARDING,

Governor.

#### Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama:" in the United States, "Pancanal, Washington."

Distribution Among Ports of Cargo Passing Through the Canal from Pacific to Atlantic, May, 1920.

Ipswich, England.	2,500
Genoa, Italy.	6,889
Amsterdam, Netherlands.	9,836
Cristobal,	3,615 1,630 1,919 4,848 2,200 2,000 1,806
Wilmington, N. C.	3,500 17,730 2,638 8,083 8,083
Savannah, Ga.	17,800
Philadelphia, Pa.	198'8
Norfolk, Va.	8,850
New York,	3.700 7.566 11,000 3.100 2.900 10,986 7.516 7.516 15,535 7.818 7.818 7.818 7.818 7.818 115,535 116,469 2.900 3.472 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325 14,325
New Отleans, La.	3,750 8,041
Charleston, S. C.	9,000
Baltimore, Md.	3,025
From	Autofagasta, Chile  Autofagasta, Chile  Autofado Org  Autofado New Zealand  Benaaventura, Colombia  Caleta Colosa, Chile  Caleta Colosa, Chile  Caleta Colosa, Chile  Cornolo, Nicaragua  Cornolo, Nicaragua  Cornolo, Chile  Eten, Peru  Genoa Bay, Wash,  Genoa Bay, Wash,  Guayaquil, Ecuador  Hongkong, Chile  Eten, Peru  Hongkong, Chile  Junin, Peru  Hongkong, Chile  Alliones, Chile  Junin, Peru  Hongkong, Chile  Alliones, Chile  Melbourne, Australia  Melbourne, Australia  Melbourne, Australia  Melbourne, Chile  Jordand, Org  San Francia  Salaverry, Peru  Salaverry, Peru  Salaverry, Peru  Salaverry, Peru  Salaverry, Peru  Salaverry, Peru  Salaverry, Peru  Salaverry, Peru  Tacoma, Wash  Salaverry, Peru  Takana, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Salaverry, Chile  Velokama, Japan  Takanasio, Chile  Yokolama, Japan  Totals

From-	Liverpool, England.	London, England.	Southamp- ton, Eng.	Wallu, Norway.	Alexandria, Egypt.	Нарапа, Сира.	Matanzas, Cuba.	Nuevitas, Cubs.	Cuba.	San Juan, Porto Rico	Puerto Co- lombia, Co	Totala.
Antofazasta, Chile Adatoria, Organization Section 2					7,409							33,559
Auckland, INEW Zealand Buenaventura, Colombia	:	10,105	-		:	:	:	:	:	:	:	21,103
Caleta Buena, Chile					7.200							19,23
Caleta Colosa, Chile.												23,95
Coquimbo, Chile.	1,338											4,95
Corinto, Nicaragua												20.0
Coronel, Chile.	<u>·</u>	:	-	:		:		:		-	:	1,91
Genoa Bay, Wash.	10.105		-	-		:	:	-	-	-	:	10.90
/aquil, Ecuador												8 8 8
Hongkong, China												10,98
Junia, Peru	7,072	:	-	-		:	3,000	:	-			67,06
In Union, Salvador	:	2 478	:			:	:	:	:	:		3,01
Mejillones, Chile.	2.000	2 .			7.600		5.410					35.50
Melbourne, Australia												5,04
Noumon Now Caladasis	-	4,976		:	:		:	:	:		:	4,97
Teagus Chile	<u> </u>	<u> </u>	-	-	:	:	:	:	-	:	:	0,51
Portland, Oreg.	<del>-</del>	-	:	:	:	:	:	2 152	:	:	:	16,60
Punta Arenas, Argentine.	6,230							00140				6,23
Salayorry Dorn	-	:	-	:	:	:	:		7,139		:	7,13
San Francisco, Cal	<del>:</del>	1	:	:	:	9 491	:	:	-	9 930	9 605	3,75
San Jose, Guatemala												2,03
Singanore Straits Sottlemarts	:	:	:	:	:	7,811	:	1,660	-	:	:	26,38
Sydney, Australia		355	:	:	:	:	:	-				11.35
Pacoma, Wash.					7,582							24,05
Taku Dar, Cuina.	-	:	:		:	:		:	:	:	:	2,90
Talcahuano, Chile	1.049			740°C								19,46
Tattal, Chile. Toconilla Chila											:	35,54
Valparaiso, Chile	5 A10	:	-	:	:	:	:	:	:	-	:	30,90
Wellington, New Zealand		7,433	5,541									12,97
												0,0%
Totals.	40 KN9	97 948	K K41	E 847	90 701	10 000	0110	4 040	- 000		2000	PF0 048

Distribution Among Ports of Cargo Passing Through the Canal from Atlantic to Pacific, May, 1920.

Salina Cruz, Mexico.				6,500		6,500	.elatoT	700 113,058 10,604 5,044 111,397 6,200 8,200 8,058 9,730 7,890 7,890
Central American ports.	1,110	390				1,500	Vladivostok, Siberia.	
Chilean ports.	700					200	Yokohama, Japan.	6,200
Valparaiso, Chile.	1,887	3,848	2,400	1,861		15,126	Коре, Јарап.	
Tumaco, . Colombia.	1,112					1,112	Chemulpo, Korea,	
Taltal, Chile.					10,440	10,440	Singapore, htraits Settlements.	
Talcahuano, Chile.	4,063					4,063	Shanghai, China.	
Pisagua, Chile.				8,497	16,300	24,797	Hongkong, Ghina.	10,604
Mollendo, Peru.			2,362 2,695 5,198			10,255	Auckland, New Zealand.	9,730
Mejillones, Chile.			9,114			9,114	Sydney, Australia.	
Iquique, Chile.			3,469			13,778	Melbourne, Australia.	
Guayaquil, Ecuador.	2,732					4,087	Fremantle, Australia.	
Corral, Chile.		4,210				4,210	Brisbane, Australia.	
Callao, Peru.	1,708		6,845			11,918	Vancouver, B. C.	
Buenaven- ture, Col.	636					636	Seattle, Wash.	
Arica, Chile.					2,600	2,600	San Francis- co, Cal.	6,263 5,044 3,589
Antofagasta, Chile.			11,119		9,280	20,399	Los Angeles, Cal.	
Balboa,					19,928	19,928	San Pedro, Cal.	3,373
From	Amsterdam. Netherlands Baltimore, M.d Beaumont, Tex. Christiania, Norway Cristobal, C. Z. Galveston, Tex	Genoa, Italy Glasgow, Scotland Liverpool, England London, England Mobile Ala.	New Orleans, La New York, N. Y Newport News, Va Norfolk, Va	Philadelphia, Pa Puerto Lobos, Mexico	Sabine, Tev. Tampico, Mexico. Texas Citv. Tex. Tuxpan, Mexico.	Totals	From-	Amsterdam, Netherlands Baltimore, Md. Basumont, Tox. Christiana, Norway Christobal, C. Z. Galveston, Tox. Genon, Italy Glasgow, Soddland Liverpool, England London, England

(Continued on page 694, column 1.)

# The Sunken "Marne" Being Restored at Balboa Shops.

The steamship Marne, which was sunk at Cristobal on January 24 and again on March 6 to extinguish fire in the hold, was towed through the Canal to Balboa on July 3, and is being restored at Balboa shops. A great deal of work is to be done on her, and the exact extent of it can not be determined at this time. The work now under way is directed first at removing the engines and auxiliary machinery, so that they can be overhauled in the shops and replaced, and the next step will be the removal of the amidships deck structure, salvaging some of the material for use in rebuilding. In the meantime all damaged plates are being examined and marked. The preliminary survey will afford data for the ordering of any extra material needed for the work.

No changes are to be made in the arrangements of the ship. She is to be restored under her original plans to the condition in which she was before the fire.

# One-Way Coastwise Service with Six Sailings.

The Pacific Mail Steamship Company has announced a temporary, one-way cargo service from Baltimore to Portland and Seattle, which is separate from its regular Baltimore-San Francisco coastwise line. This service will use 6 vessels of 8,800 deadweight tons which are being sent to the Pacific by the United States Shipping Board. After discharging at the Pacific ports they will be reassigned. The first of the ships, the Westward IIo, is reported loading at Baltimore, and the five others are scheduled to follow at monthly intervals.

# Salvaging Operations on the "Koyo Maru."

The steamship Favorite, salvaging vessel in the service of The Panama Canal, is reported as having sailed for Cristobal at midnight of July 6 from Serrana Bank where she was engaged in the relief of the stranded Koyo Maru. The wrecking vessel Nemesis is now in charge of the work. Details as to the condition of the Koyo Maru have not been received.

# Chinese Steamer's Propeller Repaired in Dry Dock.

The steamship *Hwah Jah*, arriving at the Canal from Saigon on June 22, discharged her cargo on Pier 18 at Balboa and went into the dry dock on June 28 for repairs to her propeller. Spare blades, carried on the ship, were placed on the propeller hub. The *Hwah Jah* belongs to the Chinese Government.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending July 3, 1920.

1				Cargo	)
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Cauca. San Jose. Fairhaven. Huasco.	Pacific Steam Navigation Co. Pacific Steam Navigation Bo. Pacific Steam Navigation Co. Pacific Mail Steamship Co. Fairhaven Steamship Co. South American Steamship Line. Standard Oil Co.		June 29		Tons. (†) (†) (†) (†) (†) (†) (143 (†) (†)

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight July 3, 1920.

	Canal	Net	2,649 1,740 2,405 884 3,241 7,059	4,686 6,208 6,208 22,203 4,870 6,525	5,373 5,373 5,385 5,385 2,404 2,940 5,220 1,602 1,602 1,788 1,788	4,337 4,444 622 8,696 1,718 4,893
	Panama Cana tonnage	Gross	3,959 2,426 4,466 1,357 4,421 1,273 4,182	6,841 6,035 8,699 5,176 3,467 7,060 8,606	2,504 2,504 2,504 2,504 2,504 2,504 2,504 2,504	6,360 6,167 1,187 12,033 6,623
		Tons	4,532 3,300 710 645 5,200 1,600	8,102 6,684 9,450 4,500 8,700 5,700 9,500	7,904 7,500 1,000 1,000 5,400 1,433 6,793 2,985	9,600 710 3,302 5,000
		Cargo	Coal. Sulphur General General General General General	Structural steel. General General General Coal. General General Crude oil	Gas and fuel oil. Ballast. General General General General Ballast. Ballast. Ballast. Ballast. Coal	Crude oil Steel, mach., etc General Coal Sugar
	,	For-	Antofagasta Portland, Oreg Callao Guayaquil Melbuure Champerico Talcahuano	Kobe Coronel Hankow Coronel San Francisco. Syndrey. Balboa.	Manila. San Pedro Yokohama San Francisco. Valparaiso San Pedro San Pedro San Pedro San Pedro San Francisco. San Francisco San Francisco San Francisco	Chilean ports . Yokohama Tumaeo Brisbane Iquique
		From-	Norfolk Galveston Cristobal Cristobal Sabine Cristobal Hamburg	Mobile. Liverpool. New York. Liverpool. Norfolk. New York. London. Tampico.	New York. Politadelphia New York. Piliadelphia Cristobal. Norfolk. Piliadelphia Piliadelphia Rew York. Cristobal. Cristobal New York. Cristobal New York. New York. New York. New York. New York.	Tampico Sayannah Cristobal Liverpool Norfolk Jucaro
	Salt	water	22.0 22.0 22.0 23.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00	2211123500 10000000000000000000000000000000000	26.0 13.0 13.0 32.0 19.6
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TIC TO P		Length Beam	324.0 261.7 374.7 374.7 216.0 319.1 215.0 340.0	395.4 400.0 448.7 399.0 330.0 415.0 420.0	24 15 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	411 6 399.7 220.0 549.0 253.0 410.5
THROUGH THE CANAL-ATLANTIC TO PACIFIC.		Line	United States Shipping Board J. E. Chillberg, Pervivant Line Pacific Steam Navization Co. Communwealth Government, Paritie Steam Navization Co. Rayin Netlerland Steamship Co.	U. S. Steel Products Co.  B. Hain & Son. Peruce Line Lid. Strick & Co. United States Shipping Board Shaw, Saville & Allion Co. Standard Oil Co.	United States Shipping Board United States Navy Ball Line, Ltd Dollar Steamship Line. Pacific Steam Navigation Co. Prinder Steamship Line. United Steam Shipping Board Fairhaven Steamship Co. Pacific Mail Steamship Co. Pacific Mail Steamship Co. United States Shipping Board Fairhaven Steamship Co. United States Shipping Board J. E. Chillberg.	Standard Oil Co. United States Shipping Board. Pacific Steam Navigation Co Federal Steam Navigation Co. United States Shipping Board. United States Shipping Board.
		Nationality	American Pernyian British British British Dutch	American British British British American British American	American American Bartish American British British American American American American American American	American
	Cleared for sea	Day	27 29 38 1 15 35 28 16 25 28 16 25 28 16 25 28 19 02 28 17 10	28 21.00 29 15.50 29 15.40 30 9.13 1 6.15 (b)	30 19.54 1.13.13.13.13.13.13.13.13.13.13.13.13.13	3 6.57 3 16.03 (a) An 3 8.10 3 16.47 3 17.55 An 3 10.28 3 18.54 20.15 Br 3 10.45 3 19.37 4 8.12 Bri 3 10.45 3 19.37 4 8.12 Bri 3 10.45 3 19.37 4 8.12 Bri 6) Returned north through Canal
		Hour	10 10 10 10 10 10 10 10 10 10 10 10 10 1	804533455 804533455 805453	00000000000000000000000000000000000000	16.03 (47 16.47 16.54 18.15 19.39 19.05
	Completed	Day	2282222 288222 288223 288223 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 2882 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 2882 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 2882 28823 28823 28823 28823 28823 28823 28823 28823 28823 28823 2882	888888888 68888888 758484848	30 00 10 10 10 10 10 10 10 10 1	3 16. 3 16. 3 16. 3 19. 19.
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	Entered Canal	Day	919191919191 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	8888888888	000000000000000000000000000000000000000	
	ved	Hour	12.53 6.45 16.08 17.56 12.43 16.16	6.50 2.30 14.05 112.43 13.12 7.24 7.24 7.24 15.50	17.10 12.55 20.55 21.50 19.21 10.02 17.17 17.16 17.16 17.16 17.16 17.16	15.47 14.00 15.40 7.34 7.34 15.05 10.25
	Arrived at port	Day	22 27 23 27 28 23 27 28 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	20000000000000000000000000000000000000	2 2 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	29 29 27 29 34 den
		ding	National Bridge Culburra. Ucayali. Manavi. Talawa. Acajutla.	Birmingham City Tregantle Celtic Prince. Hazel Branch. Shalbristan. Karamea. H. M. Flagler.	Dastern Dastern Dastern Dastern Charles City of Dunkirk Stanley Dollar Chile Dandrose Warnee Rainbaven San Jose Bastern Victor Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile Chile	Benjamin   Benjamin   Benwater   2   15.47     Eastern Crown. 2   14.00     Damaica. 2   15.40     Northumber   3   7.34     Cland. 2   7   15.05     West Kader. 2   3   10.25     (a) Have not departed.

6,807	CA.							5,528			1,718	3,974				ಯ				1,330	:		695	. 1	1081			:		2.286	
9,505	3,235			1,803				7,093			2,631	5,391	2,472	:	2,597	4,508	1,164	5,220	7,068	6,132		450	1,312		8,050	8,000 5,365	1,552			9 115 6 059	0,00
11,205	3,175	14,000	3,500	2,500	000°2	9,905	1,525	3,850	783	3		6,474	3,200		3,100	1,207	801	5,200	8,800	6,719	4,500					8,000		5,511			2,110
Nitrate of soda	General	General	Mirates	Creneral	Copper bars	General	Sugar	Wool and tallow.					Nitrates		Nitrates	General	(ieneral,	Rice and sugar	Ceneral	Plour	Nitrates and ore.		General		Dallast	Lumber and gen.	Cieneral	Nitrates and gen.		Conough	Concrat
Baltimore	New York	New York	Nortotk	Habana	New York	New York	New York	London	Cristobal	Nuevitas, Cuba	Tampico	London	Wilmington	Cristobal	Philadelphia	Cristobal	Cristobal	Philadelphia	Copenhagen	Belfust	Cristobal (g)	Cristobal (g)	Cristobal	Tampico	Tampico	(Hasgow	('ristobal	Glasgow	Southampton .	Plymouth	Genoa
Taltal	Cahmeay	Shanghai	Antetagasta	San Francisco.	Valparaiso	Hongkong	Kobe	Lyttleton	Buenaventura	Scattle	Tocopilla	Puntarenas	Taltal	Balboa	Ant fagasta	Valparaiso	San Francisco.	Hongkong	Hongkong	Portland	Taltal	Taltal	San Jose	Balboa	Vancouver	Vancouver	Guayaquil	Antofagasta	San Francisco.	Valparaiso	valparaiso
62.7 29.0	15 0 20 6	57.3 26.0							34.0 12 6	?;i		51.9 21 6	13.6 21.0	43.0	13.8 119 6		38.0 118 2	50.0 22 5	53.6 27.8	54.4 24 O	54 5 21.5	20.0 11.6	33.0 15.3	00.0 18 0	59 6 18 6	47.0 23 6	35.2 16 3	51.7 23.0	35.1 16 0	11.0 28.0	95.4 24.0
447.2	200.4	149.5	290.0	265.0	251.0	445.0	385.0	420.0	220.0	267.8	250 0	400.0	251.0	185.0	250.2	379.7	185.5	375.0	398.2	399.9	420 5	135.0	215.0	461.6	410.5	400.0	216 0	370.0	256.1	377.0	7 1 (+
Royal Netherland Steamship Co.	W. R. Grace & Co	Prince Line, Ltd	B. J. Grefstad	J. O. Lindvig	United States Shipping Board	Nippon Yusen Kaisha	Kokusai Kisen Kabushikı Kaisha	New Zealand Shipping Co	Pacific Steam Navigation Co	United States Shipping Board .	International Petroleum Co	F. & W. Ritson	United States Shipping Board.	The Panama Canal	United States Shipping Board.	South American Steamship Line	Fairhaven Steamship Co	Nafra Italiana Co	Past A static Steamship Line	United States Shipping Board	Norddenpscher Lloyd	British Government	Pacific Steam Navigation Co	Standard Oil Co	Standard Oil Co	Harrison Line.	Pacific Steam Navigation Co	Nautilus Steamship Co	Viscountess Furness	Chilean Navy	La Veloce Libe
19 28 Dutch		17.23 British		4.08 Norwegian.	23.27 American	29.15 Japanese		17,45 British	9.10 British	22.30		19 45	1.00	4 20	20.55	6.07		23.57				15.25 British	British		20		British	24.00 British	14.20 British	20.38, Chilean	Itahan
97 15.45 27	14 15	15.45	15.42	16.39	16.44	18 20	19.47	29 14 58 29	15,40		16 47	15 55	17	21.35	15 50	11.48	17	19.05	14.30	1.16.10 3	1 21.03 27	1 17.10 4	2 13.42		2 16.20 2	2 17.25 2		2 10 00 2	3 14.20 3	3 15.27 I	3 16.50
7.14																				8.05	9.30	9 55	6.32	7.11	7.45	8.10	10 01	11.00	7.01	7 0%	9.20
00 27	99	30	30	30	00	15	20	00	30				7 00 99							1.00										11.59 3	
25 19.0	27 15	27	27	250	250	28	28 9	28 16							30 9	30 5	30 7	30	30 18	30 23	30 14	30 14	1 14	30 18	1 15	1 20				2 11	
	Garfield	Gaelic Prince	Quernstad	Sinaloa	Lake Farber	Tsuvama Maru							Corro Gardo		Lake Larga		9			Glen.				H. M. Flagler.	Ardmore	Magieian	Cauca	Apple Branch	Sapphire (f)	Angamos	Europa

PORT OF CRISTORAL. (c) Tug. (d) Schooner. (e) Motor schooner. (f) Yacht. (g) For orders. (h) 1,344,002 ft. B. M.

		na. Juan. is, and	·
	For—	Cartagena. New York via Haba New York via Haiti Colombian porta. New York and San New Orleans, Boca Habana.	se 694, column 2.
*DEPARTURES.	Line.	June 27.         Cariblean         Panama Railroad Cattle Industry         Cartagena.           June 27.         Tolon         Wew York via Habraa.           June 29.         Colon         Panama Railroad Steamship Line.         New York via Haiti.           June 29.         Colon         Panama Railroad Steamship Line.         C Monbian ports.           June 29.         Bafford (i).         United States Army.         New York and San Juan.           June 30.         Parisanina.         United Fruit Co.         New York and San Juan.           June 30.         Parisanina.         United Fruit Co.         New Orleans, Bores and Habana.	(Continued on page 694, column 2.)
	Vessel.	Caribbean Tolea Colon. Gen. G. W. Goethals. Buford (t) Parisanipa	
	Date.	June 27 June 27 June 29 June 39 June 30	
	From-	New York and Haiti. Port Limon. New Orleans. High seas for repairs. Norfolk. Norfolk. Now York via Habana.	
*ARRIVALS.	Line.	Parama Railrond Steam-hip Line. New York and Haiti. United Fruit Co. Intel Fruit Co. Rey Ordeans. Royal Mail Steam Parket Co. Iligh sas for repairs. Parama Railroad Steamship Line. Norfolk. New York via Ilabana. Parama Railroad Steamship Line. Norfolk.	
	Vessel.	Gen. W. C. Gorgas Tolon. Parismina Larno. Achilles. Calannares.	ort.
	Date.	June 27. June 28. June 28. June 28. June 29. June 29.	(i) Transpor

# July Weather Probabilities.

The following weather conditions may be expected in the Canal Zone during the month of July, 1920. These predictions are based on the weather records at Cristobal and Balboa Heights for the last 13 and 15 years, respectively.

Winds—A continuation of the rainy season conditions of June may be expected. Light variable winds will be general over the Isthmus, averaging about 9 miles an hour on the Atlantic Coast and about 7 miles an hour on the Pacific Coast. On the Atlantic side north winds slightly exceed those from any other direction, while northwest winds predominate on the Pacific side. Maximum velocities in excess of 30 to 35 miles an hour need not be expected.

Rain—Heavy showers may be expected over the Isthmus during July. The July

average for 49 years at Colon is 15.97 inches.

The 23-year average for July at Balboa Heights is 7.69 inches. The average number of days with 0.01 inch of rain or more is 21 on the Pacific side and 25 on the Atlantic. The average number of days on which the rainfall equals or exceeds 1 inch is 2 on the Pacific Coast and 5 on the Atlantic Coast.

Fogs—No fogs are likely to occur at either Canal entrance, but night and early morning fogs may be expected quite frequently over the interior. Most of these will be light, however, and will be dissipated by 8.36 a. m.

Temperature—The average air temperature will be about 80° F. on both coasts. The mean daily range of temperature will be about 15 degrees on the Pacific side and about 8 degrees on the Atlantic side. The extremes of record on the Atlantic side are 89 and 70 degrees, respectively, and on the Pacific side 95 and 67 degrees. Relative humidity—The relative humidity will average about 85 per cent on both

coasts; the daily range, however, will be considerably greater on the Pacific side.

Storms-Local rain and thunder squalls may be expected quite frequently during the month. During these storms comparatively high wind velocities occur, but they are of too short duration to cause a rough sea. The West Indies hurricane season extends from June to November. The path of these storms lies too far to the north, however, to materially affect weather conditions on the Isthmus.

Tides—The tidal fluctuations on the Atlantic side are too small to affect navigation.

Balboa tide predictions for July are given below: these are taken from "Tide Tables

for 1920," published by the Department of Commerce, Washington, D. C.

Day	y of-	m:				l Do	y of-	1				I Day	- of	1			
W.	Mo.	Time	and He	eight o Wate	f High		Mo.	Time	and He	ight o	High		y of-		and He		
						\v.	1/10.					W.	Mo.	<u> </u>			
Th	1	3:51 14.2	9:58 2.7	3:56 14.8	10:21 1.5	М	12		12:16 14.7	6:42 2.5		F	23	3:13 3.1	9:27 14.1	3:53 3.5	9:55 12.9
F	2	4:28 14.5	$\substack{10:35\\2.5}$	4:35 14.9	10:58	Tu	13	0:55 14.0	7:08 2.8	1:17 15.5	7:48 1.5	S	24		10:26 13.3		11:05 12.2
S	3	5:07 14.7	11:12 2.3	5:13 14.8	11:31 1.3	W	14	1:56 15.0	8:11 1.9	2:19	8:44	s	25		11:35 12.9	5:55 4.3	
S	4	5:43 14.9	11:48 2.3	5:50 14.7		Th	15	2:50 16.0	9:08 0.9	3:09 17.0		М	26	0:16 12.1	6:12 4.9	12:39 13.0	8:58 4.2
M	5	0:07 1.5	6:21 14.9	12:25 2.5	6:26 14:5	F	16	3:43 16.8			10:24 -1.2	Tu	27	1:19 12.4	7:16 4.8	1:34 13.3	7:55 3.7
Tu	6	0:43 1.9	6:55 14.8	1:04	7:03 14.2	S	17		10:49 -0.4	4:55 17.6	11:10 -1.4	W	28	2:09 12.9	8:12 4.2	2:20 13.7	8:43 3.0
W	١7	1:21 2.4	7:33 14.7	1:48	7:44 13.8	s	18		11:35 -0.5	5:45 17.5	11:56 -1:1	Th	29	2:51 13.6	8:58 3.6	3:02 14.2	9:25
Th	8	2:06 2.9	8:14 14.5	2:38	8:27 13.4	M	19	6:17 17.4	12:21 -0.1	6:34 17.0		F	30	3:31 14.2	9:40 2.9	3:40 14.6	10:02
F	9	2:57 3.3	8:59 14.2	3:34 3.8	9:23 13.0	Tu	20	0:41 -0.3	7:04 16.9	1:10	7:22 18.1	S	31	4:07 14.7	10:17 2.2	4:17 15.0	10:38
S	10		9:59 14.0		10:31 12.9	w	21	1:30 0.7	7:51 16.1	2:01	8:10 15.1						
S	11	4:55 3-6	11:08 14.2	5:37 3.2	11:48 13.2	Th	22	2:20 1.9	8:36 15.2	2:56	8:57 13.9						

The tides are placed in the order of their occurrence; the times of high and low tides are shown on the upper lines. The figures in boldfaced type are hours and elevations between noon and midnight; ante meridian figures are given in the ordinary lightfaced type. The time is Cosmopolitan Standard for the meridian 75° W.

The elevations of the water are shown on the second line for each day; a comparison of consecutive heights will indicate whether it is high or low water. Heights are reckoned from mean low water springs, which is 8.3 below mean sea level and is the datum of soundings on the Coast and Geodetic Survey charts for this region. The depth of water may accordingly be estimated by adding the tabular height of the tide to the soundings; unless a minus (-) sign is before the height, in which case it is to be subtracted. The annual inequality or variation in the mean sea level is included in the predictions.

# Raising Yellow Fever Quarantine Against Atlantic Ports of Colombia.

The routine quarantine against Atlantic ports of Colombia for yellow fever has been lifted. With respect to this disease, the quarantine is now the same as against all other ports, and passengers are not subject to detention unless examination made by the quarantine officer

discloses the suspicion of the disease.

It has been possible to lift this quarantine by virtue of the fact that no cases of yellow fever have originated in these ports for the past 12 years, and because the sanitary conditions there have been considerably improved, and since conditions on the Isthmus are such that if a case of yellow fever should get ashore, there would be little danger of the spread of the disease.

# Notaries Public in the Canal Zone.

The following is a list of the notaries public commissioned in the Canal Zone as of June 25, 1920.

#### BALBOA.

Adams, R. H., Balboa shops, Aug. 18, 1922. Attaway, E. F., Balboa clubhouse, Oct. 28, 1921. Dwelle, R. L., Balboa clubhouse, Oct. 28, 1921. Hyde, W. H., Port Captain's office, March 31,

Illwitzer, P. G., Balboa storchouse, Oct. 11, 1920. Kalar, John D., Port Captain's office, April 15, 1923.

Maney, F. L., Mechanical Division, March 14, 1923.

#### BALBOA HEIGHTS.

Pender, W. I., Administration Building, room 237, July 30, 1922.

Hammer, H. H., Property and Requisition Bureau, March 31, 1923.

Margon, C. C., Administration Building, room 237, Aug. 8, 1920.

Sherrit, Nye B., post office, April 21, 1921.

Singleton, C. C., District Quartermaster's, April 26, 1922.

Taylor, Richard G., Survey office, Jan. 8, 1921. Vanderslice, Geo. J., Administration Building, room 237, Nov. 6, 1921. Wang, Frank H., Bureau of Posts, April 30, 1923. Wempe, Henry J., Chief Quartermaster's, Nov.

Wempe, Henry J., Chief Quarter, 31, 1921.
Woodruff, B. C., Accounting Department, Feb.

# ANCON.

Boyd, Oscar S., Municipal Engineering Division-July 30, 1922. LeMirc, George, post office, April 30, 1923. Sheibley, F. H., District Court, Nov. 1, 1920. Williams, H. E., public stenographer, Tivoli, Jan. 10, 1921. Woolworth, P. T., Clubhouse, Oct. 28, 1921.

Gill, Joseph H., Armament Office, Dec. 10, 1922. Hgen, W. F., station agent, Dec. 3, 1922.

## PEDRO MIGUEL.

Oliver, Rev. E. M., Minister, April 30, 1923.

Thornton, H. O., station agent, Dec. 3, 1922.

#### EMPIRE.

Cooper, H. J., station agent, Dec. 3, 1922.

#### SUMMIT.

Wood, A. C., station agent, Dec. 3, 1922.

Grechan, P. A., station agent, Dec. 3, 1922.

#### MONTE LIRIO.

Collins, E. G., station agent, Dec. 3, 1922.

#### FRIJOLES.

Coffey, D. A., station agent, Dec. 17, 1922.

#### GATUN.

Davis, Lee, Clubhouse, Oct. 28, 1921. De Lange, William, Electrical Division, Dec. 12,

Hanrahan, T. J., station agent, Dec. 3, 1922.

#### CRISTORAL

Campbell, James S., Assistant District Court Clerk, Jan. 29, 1923.Daniels, W. L., Building Division, March 25,

Dwyer, J. W., Commissary Division, Sept. 27, 1921.

1921.
Hansli, A. J., coaling plant, Oct. 16, 1921.
Hulsebosch, P. C., Cristobal shops, Aug. 28, 1921.
MacSparren, E. S., Receiving and Forwarding Agency, Oct. 16, 1921.
McCarthy, J. S., Cattle Industry, Feb. 10, 1922.
Mitchell, J. A., Customs office, March 31, 1922.
Nicholls, L. H., coaling plant, Mt. Hope, Feb. 20, 1923.

Mitchell, J. A., Customs office, March 31, 1922. Nicholls, L. H., coaling plant, Mt. Hope, Feb. 20, 1923.
O'Meara, Chester V., Commissary Division, March 23, 1923.
Rattiner, W. H., Municipal Engineering Division, Feb. 18, 1921.
Flood, Arthur, Customs office, Nov. 15, 1922.
Stone, W. H., Mechanical Division, Sept. 4, 1922.
Tyson, Arthur E., Clubhouse, Oct. 28, 1921.
Weaver, H. D., Port Captain's office, May 11, 1922.

Yearick, G. L., Commissary Division, March 22,

There are no notaries at present at Naos Island, Fort Amador, La Boca, Miraflores, Paraiso, Las Cascadas, Darien, Mount Hope, Coco Solo, France Field, or the Submarine Base.

# Official Circulars.

# Act of Congress-Masonic Temple Building, Cristobal.

THE PANAMA CANAL,
EXECUTIVE OFFICE,
BALBOA HEIGHTS, C. Z., June 23, 1920.

CIRCULAR No. 600-70:

The Act of Congress quoted below is published for the information of all concerned.

CHESTER HARDING,

AN ACT To remove a certain tract or lots of land in Cristobal, Canal Zone, from the operation and effect of the Executive order of the President of December 5, 1912, pursuant to the Act of Congress of August 24, 1912 (Thirty-seventh Statutes, chapter 390, page 565). Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled. That the following tract of land situated within the Canal Zone, and more particularly described as lots numbered six hundred and forty-one, six hundred and forty-three, six hundred and forty-five, and six hundred and forty-seven, in the town of Cristobal, Canal Zone, the same being bounded on the north by Eleventh Street, on the east by Bolivar Street, on the south by lot numbered six hundred and forty-nine, and on the west by a vacant lot, the said lots or tract of land having an extension from north to south of one hundred and twenty feet and from east to west of one hundred feet, and measuring in superficial area twelve thousand square feet, be, and the same is hereby, withdrawn from the operation and effect of the Act of Congress approved August 24, 1912, known as the Panama Canal Act (Thirty-seventh Statutes, chapter 390, page 565), and the subsequent Executive order of the President, issued pursuant to the said Act of Congress under date of December 5, 1912.

Sec. 2. The Panama Railroad Company is hereby authorized to sell, transier, and convey said lots or tracts of land with all improvements thereon to any other person or persons or association of persons and retain the consideration therefore.

thereon to any other person or persons or associa-tion of persons and retain the consideration there-

for for its own use.
Approved, June 5, 1920.

# Act of Congress-Sundry Civil Appropriation, 1921.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., June 24, 1920.

CIRCULAR No. 600-72:

The extracts from an Act of Congress quoted below are published for the information of all concerned.

CHESTER HARDING. Governor

AN ACT Making appropriations for sundry civil expenses of the Government for the fiscal year ending June 30, 1921, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the following sums are appriated, out of any money in the Treasury not otherwise appropriated, for the fiscal year ending June 30, 1021, page 1975. June 30, 1921, namely:

WAR DEPARTMENT.

QUARTERMASTER CORPS.

NATIONAL CEMETERIES: * * *
Disposition of remains of officers, soldiers, and civilian employees: For interment, cremation (only upon request from relatives of the deceased), (only upon request from relatives of the deceased), or preparation and transportation to their homes or to such national cemeteries as may be designated by proper authority, in the discretion of the Secretary of War, of the remains of officers, cadets, United States Military Academy, including acting assistant surgeons and enlisted men in active service, and accepted applicants for en-

in active service, and accepted applicants for enlistment; interment, or preparation and transportation to their homes, of the remains of civil employees of the Army in the employ of the War Department who die abroad, in Alaska, in the Canal Zone, or on Army transports, * * \$21,549,000: Provided, That the above provisions shall be applicable in the cases of officers and enlisted men on the retired list of the Army who have died or may hereafter die while on active duty by proper assignment and also to citizens of the United States who may have died with the American forces: Provided further, That, in addition to the foregoing sum, the unobligated in addition to the foregoing sum, the unobligated balance of the appropriation "Disposition of Re-mains of Officers, Soldiers, and Civil Employees," mains of Officers, Soldiers, and Civil Employees," for the fiscal year 1920 is made available during the fiscal year 1921 for the care and maintenance of graves of officers, soldiers, and civilian employees of the Army abroad, and for the preparation and shipment of their remains to their homes, or to national cemeteries: Provided further, That there may be expended from and after the approval of this Act and until June 30, 1921, from this appropriation and the appropriation for this purpose for the fiscal year 1920, a total amount not exceeding \$250,000 for personal services in the Cemeterial Division, Office of the Quartermaster General, War Department, for compiling, recording, preparing, and transmitting Quartermaster General, War Department, for compiling, recording, preparing, and transmitting data incident to the disposition of the remains referred to herein; this sum may be expended notwithstanding the third proviso of the paragraph entitled "Temporary employees, War Department," contained in the Legislative, Executive, and Judicial Appropriation Act for the fiscal year 1921.

# DEPARTMENT OF THE INTERIOR. *

SAINT ELIZABETHS HOSPITAL.

For support, clothing, and treatment in Saint Elizabeths Hospital of the insane from the Army, Navy, Marine Corps, Coast Guard, inmates of the National Home for Disabled Volunteer Soldiers, persons charged with or convicted of crimes against the United States who are insane, all persons the proper insane, all persons in the control of the same insane, all persons in the same insane, all persons in the same insane in the same insane. against the United States who are insane, all persons who have become insane since their entry into the military and naval service of the United States, civilians in the quartermaster's service of the Army, persons transferred from the Canal Zone, who have been admitted to the hospital and who are indigent, * * * * * * * * * \$1,000,000;

# DEPARTMENT OF COMMERCE.

COAST AND GEODETIC SURVEY.

Field expenses: For surveys and necessary resurveys of the Atlantic and Gulf coasts of the United States, including the coasts of outlying islands under the jurisdiction of the United States: Provided, That not more than \$45,000 of this amount shall be expended on the coasts of said outlying islands, and the Atlantic entrance to the Panama Canal, \$104,000;

# THE PANAMA CANAL.

THE PANAMA CANAL.

For every expenditure requisite for and incident to the maintenance and operation, sanitation, and civil government of the Panama Canal and Canal Zone, including the following: Compensation of all officials and employees, including \$1,000 additional compensation to the Auditor for the War Department for extra services in auditing accounts for the Panama Canal; foreign and domestic newspapers and periodicals; law books not exceeding \$500, textbooks and books of reference; printing and binding, including printing of annual report; rent and personal services in the District of Columbia; purchase or exchange of typewriting, adding, and other machines; purchase or exchange, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles; claims for damages to

vessels passing through the locks of the Panama Canal, as authorized by the Panama Canal Act; claims for losses of or damages to property arising from the conduct of authorized business operations; claims for damages to property arising from the maintenance and operation, sanitation, and civil government of the Panama Canal; acquisition of land and land under water, as authorized in the Panama Canal Act; expenses incurred in assembling, assorting, storing, repairing, and selling material, machinesto, and equipment curred in assembling, assorting, storing, repairing, and selling material, machinery, and equipment heretofore or hereafter purchased or acquired for the construction of the Panama Canal which are unserviceable or no longer needed, to be reimbursed from the proceeds of such sales; expenses incident to conducting hearings and examining estimates for appropriations on the Isthmus; expenses incident to any emergency arising because estimates for appropriations on the Isthmus; expenses incident to any emergency arising because of calamity by flood, fire, pestilence, or like character not foreseen or otherwise provided for herein; per diem allowance in lieu of subsistence when prescribed by the Governor of the Panama Canal, to persons engaged in field work or traveling on official business, pursuant to section 13 of the Sundry Civil Appropriation Act approved August 1, 1914; and for such other expenses not in the United States as the Governor of the Panama Canal may deem necessary best to promote the maintenance and operation, sanitation, and civil government of the Panama Canal, all to be expended under the direction of the Governor of the Panama Canal and accounted for as follows:

For maintenance and operation of the Panama

For maintenance and operation of the Panama For maintenance and operation of the Panama Canal, salary of the governor, \$10,000; purchase, inspection, delivery, handling, and storing of material, supplies, and equipment for issue to all departments of the Panama Canal, the Panama Railroad, other branches of the United States Government, and for authorized sales, payment in lump sums of not exceeding the amounts authorized by the injury compensation. Act, approved lump sums of not exceeding the amounts authorized by the injury compensation Act approved September 7, 1916, to alien cripples who are now a charge upon the Panama Canal by reason of injuries sustained while employed in the construction of the Panama Canal, \$7,531,851, together with all moneys arising from the conduct of business operations authorized by the Panama Canal Act:

Act;
For sanitation, quarantine, hospitals, and medical aid and support of the insane and of lepers, and aid and support of indigent persons legally within the Canal Zone, including expenses of their deportation when practicable, and including additional compensation to any officer of the United States Public Health Service detailed with the Panama Canal as chief quarantine officer, \$850,000;
For civil government of the Panama Canal and

For civil government of the Panama Canal and Canal Zone, salaries of district judge \$7,500, district attorney \$5,000, marshal \$5,000, and for gratuities and necessary clothing for indigent discharged prisoners, \$900,000;

In all, \$9,281,851, to be available until ex-

In all, \$9,281,851, to be available until expended.

Except in cases of emergency, or conditions arising subsequent to and unforeseen at the time of submitting the annual estimates to Congress, and except for those employed in connection with the construction of permanent quarters, offices, and other necessary buildings, dry docks, repair shops, yards, docks, wharves, warehouses, storehouses, and other necessary facilities and appurtenances for the purpose of providing coal and other materials, labor, repairs, and supplies, and except for the permanent operating organization under which the compensation of the various positions is limited by section 4 of the Panama Canal Act, there shall not be employed at any time during the fiscal year 1921 under any of the foregoing appropriations for the Panama Canal, any greater number of persons than are specified in the notes submitted, respectively, in connection with the estimates for each of said appropriations for shall there be paid to any such person during that fiscal year any treater tase of compensation that fiscal year any treater tase of compensation. In the annual Book of Estimates for said year, nor shall there be paid to any such person during that fiscal year any greater rate of compensation than was authorized to be paid to persons occupying the same or like positions on July 1, 1919; and all employments made or compensation increased because of emergencies or conditions so

arising shall be specifically set forth, with the reasons therefor, by the governor in his report for the fiscal year 1921. In addition to the foregoing sums there is appropriated, for the fiscal year 1921 for expenditures and reinvestment under the several heads of appropriation aforesaid without being covered into the Treasury of the United States, all moneys received by the Panama Canal from services rendered or materials and supplies furnished to the United States, the Panama Railroad Company, the Canal Zone government, or to their employees, respectively, or to the Panama Government, from hotel and hospital supplies and services; from rentals, wharfage, and like service; from labor, materials, and supplies and other services furnished to vessels other than those passing through the Canal and to others unable to obtain the same elsewhere; from the sale of scrap and other by-products of manufacturing and shop operations; from the sale of obsolete and unserviceable materials, supplies, and equipment purchased or acquired for the operation, maintenance, protection, sanitation, and government of the canal and Canal Zone; and any net profits accruing from such business to the Panama Canal shall annually be covered into the Treasury of the United States. Canal shall annually be covered into the Treasury of the United States.

In addition there is appropriated for the oper-

In addition there is appropriated for the operation, maintenance, and extension of water works, sewers, and pavements in the cities of Panama and Colon, during the fiscal year 1921, the necessary portions of such sums as shall be paid awater rentals or directly by the Government of Panama for such supposes.

water rentals or directly by the Government of Panama for such expenses.

SEC. 2. That all sums appropriated by this Act for salaries of officers and employees of the Government shall be in full for such salaries for the fiscal year 1921, and all laws or parts of laws to the extent they are in conflict with the provisions of this Act are repealed.

* * * * * *

SEC. 4. Any journal, magazine, periodical, or similar publication which is now being issued by a department or establishment of the Government may, in the discretion of the head thereof, be continued, within the limitation of available appropriations or other Government funds, until June 30, 1921, when, if it shall not have been specifically authorized by Congress before than date, such journal, magazine, periodical, or similar publication shall be discontinued.

SEC. 7. Hereafter no department or other Government establishment shall dispose of any type-writing machines by sale, exchange, or as part payment for another typewriter, that has been used less than these years. used less than three years. Approved, June 5, 1920.

# Appointment.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., June 28, 1920.

CIRCULAR No. 661-86:
Effective this date, Lientenant Harry Champeno, U. S. N., is appointed Supervisor of Harbor Craft (Marine Division) and Engineer Member, Board of Local Inspectors.
CHESTER HARDING, Governor.

# Administrator's Sale.

Administrator's Sale.

The Commissary tailor shop at Ancon is authorized to sell, for the account of the estate of Joseph M. Glover, a deceased American employee of The Panama Canal, a two-piece suit of blue worsted which was being made for the deceased when he died. The coat is a 38, the trousers of 29½ length, 32½ waist. The sale pice is \$35, but persons offering less than this figure may leave written and sealed bids on the suit with the tailor. Bids will be opened in the Administrator's office at 10 a. m., Monday, August 2, 1920, in case the suit has not previously been sold at the \$35 price. No advance deposit of money is required with bids. The Administrator reserves the right to reject any or all bids. reject any or all bids.

C. H. CAI HOUN, Administrator of Estates.

Distribution Among Ports of Cargo Passing Through the Canal from Atlantic to Pacific, May, 1920.—Continued from page 686.

.elstoT	35,616 100,839 16,164 48,785 3,365 17,365 17,250 82,409 5,800 2,600	418,678
Vladivostok, Siberia.	8,900	8,900
Yokobama, Japan.	31,587	54,687
Kobe, Japan.	9,450 6,708 6,761	22,919
Chemulpo, Korea,	6,000	000'9
Singapore, Straits Settlements.	10,700	10,700
,isanghai. Ghina.	10,100	10,100
Hongkong, China.		10,604
Auckland, New Zealand.	13,020	40,250
Sydney, Australia.	5,800	5,800
Alchourne, Australia.	5,500	10,500
Fremantle. Australia.	5,650	5,650
Prisbane, Australia.	3,052	9,252
Vancouver,	5,615	5,615
Seattle, Wash.	5,266	5,266
San Francis- co, Cal.	3,572	38,168
Los Angeles,	0,866 2,866 2,866	9,731
San Pedro,		3,373
Ггот—	New Orlcans, La. New York, N. Y. Newport, News, Va. Norfolk, Va. Penersoola, Fla. Piniadelphia, Pa. Paterto Lobes, Mexico. Sabine, Tex. Tampico, Mexico. Texas Cliv, Tex. Tuxpan, Mexico.	Totals

LIOVEMENTS GF CCEAN VESSELS.-Continued from page 689.

		For—	Port Limon. New Orleans. New York and Limon. Norfolk. N.Y., Santiago, and Haiti.			San Francisco.	are postmeridian.
	*DEPARTURES.	Line.	United Fruit Co		*DEPARTURES.	June 29   City of Para   Pacific Mail Steamship Co   San Franci	Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian
d.		Vessel.	Calamares Abongarez Balsa (d) Achilles (j)			City of Para	pressed on the 24-hour
PAL-Continue		Date.	June 30 June 30 July 1 July 2 July 3	BALBOA.		June 29	Hours are ex
PORT OF CRISTOPAL—Continued.		From-		FORT OF BALBOA		High seas. Portland.	rough the Canal.
T this coupling	*ARRIVALS,	Line.	Tritted Fruit Co. Panama Railroad Cattle Industry. Leyland Line. Therpool via wayports. Panama Railroad Steamship Line. New York via Haiti. Gow Harrison & Co. London via wayports.	-	*ARRIVALS.	Pacific Mail Steamship Co High seas. United States Shipping Board Portland.	*Other than ships passing through the Canal.
		Vessel.	Abangarez Caribbean Logican. Panama. Vancouver	r.		City of Para (k)	to Balboa for repa
		Date.	June 30. July 1. July 2. July 2. July 3.	(j) Collier.		June 27	(k) Retu

# THE PANAMA CANAL RECORD



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Volume XIII.

Balboa Heights, C. Z., July 14, 1920.

No. 48.

# Change in Prices of Coal.—Supplement to Tariff No. 4.

The Panama Canal has issued supplement No. 1 to Tariff No. 4, effective July 10, 1920, advancing the prices of coal to steamships \$1.50 per ton over rates previously in effect. The following are the prices established by supplement No. 1:

		Cristobal.	Balboa.
1.	For steamships, including warships of all nations, delivered		
	from coaling plants or alongside of vessels in lighters or in cars on the wharves and trimmed in bunkers, per ton of		
	2,240 pounds, except as provided in paragraph 2	\$15.00	\$17.00
2.	For vessels transiting the Canal that are directed by The Pan-		
	ama Canal to take coal at Balboa on account of the condition		
	of the plants, the quantity available, or for the purpose of		15.00
2	expediting transit	***********	15.00
J.	than 25 tons from lighters	16.50	18.50
4.	When request is made by commander of vessel, chief engineer,		
	or agent, for trimming on deck, between decks, or special		
	trimming in bunkers for convenience of vessel, an additional		
=	charge of 90 cents per ton will be made for extra handling. For lump coal for galley use, delivered in sacks, additional		
J.	charge per ton, \$10. Should the vessel furnish satisfactory		
	sacks, the price will be only \$3 per ton additional. Not		
	more than 5 tons will be supplied to a vessel.		
6.	For coal for cargo which will be delivered only in exceptional	3 7 70	40 70
	cases after special authority is given by the Governor	17.50	19.50

# Canal Traffic in June.

The Canal traffic for June, 1920, is shown as classified in the following tabulation:

No.	Danistan	Registered	Registered net	Panama Canal net	Tons	Pacific to .	Atlantic.
ships.	Registry.	gross. tonnage.	tonnage.	tonnage.	cargo.	From-	То
18 1 1 1 1 1	American Dutch Japanese Chilean Danish Norwegian	81,701 6,944 6,079 5,919 4,828 2,095	51,445 4,414 3,850 2,960 3,030 1,302	61,079 6,807 4,440 3,442 4,220 1,668	90,308 11,200 8,175 3,915 6,369 3,300	W. coast S. America W. coast S. America W. coast S. America W. coast S. America W. coast S. America W. coast S. America	E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S.
23		107,566	67,001	81,656	123,267	W. coast S. America	E. coast U. S.
9 3 3 2 1	British Peruvian Chilean American German	1,230	6,967 7,014 6,141 744 121	9,309 8,473 8,787 700 123	7,826 8,927 3,749 1,530 Ballast	W. coast S. America W. coast S. America W. coast S. America W. coast S. America W. coast S. America	Cristobal. Cristobal. Cristobal. Cristobal. Cristobal.
18		37,307	20,987	27,392	22,032	W. coast E. America	Cristobal.
6 4 1	British German French	19,754	25,018 12,251 3,681	30,887 17,082 4,146	26,187 18,799 6,681	W. coast S. America W. coast S. America W. coast S. America	Europe. Europe. Europe.
11		69,819	40,950	52,115	51,667	W coast S. America	Europe.
4 3 1 1	Japanese British American Italian	15,632 6,126	11,170 9,775 3,800 2,773	14,959 14,865 4,793 3,950	23,738 26,650 7,600 5,200	Far East. Far East. Far East. Far East.	E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S.
9	1	43,903	27,518	38,567	63,188	Far East	E. coast U. S.

No.		Registered		Panama	Tons	Pacific to Atlant	ic.—Continued.
ships.	Registry.	gross tonnage.	net tonnage.	Canal net tonnage.	cargo.	From—	То—
7	American	33,988	21,828	25,754	30,574	U. S. coastwise	
5	British	38,456	26,642	. 31,569	32,033	Australia and N. Z'land.	Europe.
2 2 1	Norwegian. American British	14,009 12,478 2,631	8,860 8,672 1,394	10,174 9,882 1,718	Ballast Ballast Ballast	W. coast S. America W. coast S. America W. coast S. America	Mexico. Mexico. Mexico.
5		29,118	18,926	21,774	Ballast	W. coast S. America	Mexico.
3 1 1	American British Swedish	18,953 5,162 3,745	12,571 3,191 2,858	14,830 3,936 4,019	24,235 6,702 5,400	W. coast U. S. W. coast U. S. W. coast U. S.	Europe. Europe. Europe.
5		27,860	18,620	22,785	36,337	W. coast U. S	Europe.
4 1	American Norwegian	9,901 1,648	5,844 811	6,839 1,121	6,020 2,300	W. coast U. S W. coast U. S	Cuba. Cuba.
5		11,549	6,655	7,960	8,320	W. coast U. S	Cuba.
2	American	12,376	7,644	10,512	11,172	British Columbia	United Kingdom.
1 1	American British	5,991 4,304	3,709 2,804	4,712 3,938	7,600 5,411	Phil!ippines	E. coast U. S. E. coast U. S.
2		10,295	6,513	8,650	13,011	Philippines	E. coast U. S.
2	American	3,224	2,086	2,344	2,356	W. coast U. S	Cristobal.
1	American	18,373	7,564	5,922		Far East	Europe.
1	American	6,041	4,506	4,954	8,100	W coast U.S	Egypt.
1	Japanese	4,987	2,616	3,570	6,500	Far East	Cuba.
1	British	1,170	653	706	1,087	W. coast Cen. America	Cristobal.
1	Colombian.	96	57	95	27	Panama	N. Colombian ports.
99	1	456.128	280,766	346,325	409,671		
		Registered	Registered	Panama	409,671 Tons	Atlantic to	Pacific.
No. ships.	Registry.			-	1	Atlantic to	Pacific.
No.		Registered gross	Registered net	Panama Canal net	Tons		
No. ships.	Registry.  American British	Registered gross tonnage.  55,823 35,088	Registered net tonnage.  35,608 22,190	Panama Canal net tonnage. 44,533 27,843	Tons cargo. 69,644 24,505	From—  E. coast U. S E. coast U. S.	To— Far East. Far East.
No. ships.	American British Japanese	Registered gross tonnage.  55,823 35,088 26,069	Registered net tonnage. 35,608 22,190 16,565	Panama Canal net tonnage. 44,533 27,843 19,215	Tons cargo. 69,644 24,505 32,088	From—  E. coast U. S. E. coast U. S. E. coast U. S.	To— Far East. Far East. Far East.
No. ships.  9 5 5 19 16	American British Japanese	Registered gross tonnage.  55,823 35,088 26,069  116,980  67,094	Registered net tonnage.  35,608 22,190 16,565  74,363 40,181	Panama Canal net tonnage. 44,533 27,843 19,215 91,591 49,544	Tons eargo.  69,644 24,505 32,088  136,237  58,977	From—  E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S.  E. coast U. S.  E. coast U. S.	To— Far East. Far East. Far East. W. coast S. America.
No. ships.  9 5 5 19 16 2	American British Japanese American British British	Registered gross tonnage.  55,823 35,088 26,069  116,980  67,094 8,722	Registered net tonnage.  35,608 22,190 16,565  74,363  40,181 5,463	Panama Canal net tonnage. 44,533 27,843 19,215 91,591 49,544 6,768	Tons cargo.  69,644 24,505 32,088  136,237  58,977 5,656	From—  E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S.	To— Far East. Far East. Far East. W. coast S. America. W. coast S. America.
No. ships.  9 5 5 19 16 2 18 9 3 3 3 3 2	Registry.  American British Japanese.  American British  British Peruvian Chilean American	Registered gross tonnage.  55,823 35,088 26,069 116,980 67,094 8,722 75,816 10,423 12,666 8,704 1,230	Registered net tonnage.  35,608 22,190 16,565  74,363  40,181 5,463  45,644  5,880 6,614 5,887 7,44	Panama Canal net tonnage. 44,533 27,843 10,215 91,591 49,544 6,768 56,312 7,284 8,209 8,120 700	Tons cargo.  69,644 24,505 32,088  136,237  58,977 5,656 64,633  5,056 2,183 1,819 721	From—  E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S.  E. coast U. S. E. coast U. S. C. coast U. S. Cristobal Cristobal Cristobal Cristobal	To— Far East. Far East. Far East. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America.
No. ships.  9 55 5 19 16 2 18 9 3 3 2 1	Registry.  American British Japanese.  American British British Peruvian Chilean American German	Registered gross tonnage.  55,823 35,088 26,069 116,980 67,094 8,722 75,816 10,423 12,666 8,704 1,230 536	Registered net tonnage.  35,608 22,190 16,565  74,363  40,181 5,463  45,644  5,880 6,614 5,887 744 121	Panama Canal net tonnage. 44,533 27,843 10,215 91,591 49,544 6,768 56,312 7,284 8,209 8,120 700 123	Tons cargo.  69,644 24,505 32,088  136,237  58,977 5,656 64,633  5,056 2,183 1,819 721 Ballast	From—  E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal	To— Far East. Far East. Far East. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America.
No. ships.  9 55 19 16 2 18 9 3 3 2 1 18 6 6	Registry.  American British Japanese  American British  British  Peruvian Chilean American German  British	Registered gross tonnage.  55,823 35,088 26,069  116,980  67,094 8,722  75,816  10,423 12,666 8,704 1,230 536  33,559  33,559	Registered net tonnage.  35,608 22,190 16,565  74,363  40,181 5,463  45,644  5,880 6,614 5,887 744 121 19,246 21,341 3,422	Panama Canal net tonnage. 44,533 27,843 19,215 91,591 49,544 6,768 56,312 7,284 8,209 700 123 24,436 25,211 4,156	Tons cargo.  69,644 24,505 32,088  136,237  58,977 5,656  64,633  5,056 2,183 1,819 721 Ballast 9,779  24,464 6,884	From—  E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal	To— Far East. Far East. Far East. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America.
No. ships.  9 55 19 16 2 18 9 3 3 2 1 18 6 1 1	Registry.  American British Japanese  American British  British  Peruvian Chilean American German  British	Registered gross tonnage.  55, 823 35,088 26,069  116,980  67,094 8,722  75,816  10,423 12,666 8,704 1,230 536  33,559  33,554 5,607 2,739	Registered net tonnage.  35,608 22,190 16,565 74,363 40,181 5,463 45,644 5,880 6,614 5,887 744 121 19,246 21,341 3,422 1,670	Panama Canal net tonnage. 44,533 27,843 19,215 91,591 49,544 6,768 56,312 7,234 8,120 700 123 24,436 25,211 4,156 3,059	Tons cargo.  69,644 24,505 32,088  136,237  58,977 5,656  64,633  5,056 2,183 1,819 721  Ballast 9,779  24,464 6,884 1,600	From—  E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal	To—  Far East. Far East. Far East. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America.
No. ships.  9 55 19 16 2 18 9 3 3 2 1 18 6 1 1 8	Registry.  American. British. Japanese.  American. British. Peruvian. Chilean. American. German.  British.	Registered gross tonnage.  55, 823 35,088 26,069  116,980  67,094 8,722  75,816  10,423 12,666 8,704 1,230 536  33,559  33,559  33,554 5,607 2,739  41,900	Registered net tonnage.  35,608 22,190 16,565 74,363 40,181 5,463 45,644 5,880 6,614 5,887 744 121 19,246 21,341 3,422 1,670 26,433	Panama Canal net tonnage. 44,533 27,843 19,215 91,591 49,544 6,768 56,312 7,284 8,209 8,120 700 123 24,436 25,211 4,156 3,059 32,426	Tons cargo.  69,644 24,505 32,088 136,237 58,977 5,656 64,633 5,056 2,183 1,819 7,21 Ballast 9,779 24,464 6,884 1,600 32,948	From—  E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Europe Europe Europe Europe Europe	To—  Far East. Far East. Far East. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America.
No. ships.  9 5 5 19 16 2 18 9 3 3 2 1 18 6 11 8 8 8 3 3 3	Registry.  American British Japanese  American British  British  British  British  Chilean  American  German  American  American  American  British	Registered gross tonnage.  55,823 35,088 26,069 116,980 67,094 8,722 75,816 10,423 12,666 8,704 1,230 536 33,559 33,559 41,900 31,298 21,437 17,948	Registered net tonnage.  35,608 22,190 16,565  74,363  40,181 5,463  45,644  5,880 6,614 121  19,246  21,341 3,422 1,670  26,433 20,745  15,340 11,257	Panama Canal net tonnage. 44,533 27,843 19,215 91,591 49,544 6,768 56,312 7,284 8,209 8,120 700 123 24,436 25,211 4,156 3,059 32,426 24,217 16,461 13,001	Tons cargo.  69,644 24,505 32,088  136,237  58,977 5,656 64,633  5,056 2,183 1,819 721 Ballast 9,779 24,464 6,884 1,600 32,948 27,930 17,543 23,800	From—  E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal	To— Far East. Far East. Far East. Far East. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America.
No. ships.  9 5 5 19 16 2 18 9 3 3 2 1 18 6 1 1 8 8 8	Registry.  American British Japanese  American British  British Peruvian Chilean American German  British  American British  French Dutch  American American American American Norwegian	Registered gross tonnage.  55,823 35,088 26,069  116,980  67,094 8,722  75,816  10,423 12,666 8,704 1,230 536  33,559  33,559  41,900  31,298  21,437 17,948 6,987	Registered net tonnage.  35,608 22,190 16,565  74,363  40,181 5,463  45,644  5,880 6,614 5,887 744 121 19,246 21,341 3,422 1,670 26,433 20,745 15,340 11,257 4,422	Panama Canal net tonnage.  44,533 27,843 19,215 91,591 49,544 6,768 56,312 7,284 8,209 8,120 24,436 25,211 4,156 3,059 32,426 24,217 16,461 13,001 5,081	Tons eargo.  69,644 24,505 32,088  136,237  58,977 5,656  64,633  5,056 2,183 1,819 721 Ballast 9,779 24,464 6,884 1,600 32,948 27,930 17,543 23,800 9,300	From—  E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. U. S. coast U. S. Europe. Europe. Europe. Europe.  Europe. U. S. coastwise. Mexico. Mexico. Mexico. Mexico.	To—  Far East. Far East. Far East. Far East. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America.
No. ships.  9 5 5 19 16 2 18 9 3 3 3 2 1 18 6 11 7 6	Registry.  American British Japanese  American British  British  British  British  Chilean  American  German  British  American  American  British  American  British  British	Registered gross tonnage.  55,823 35,088 26,069 116,980 67,094 8,722 75,816 10,423 12,666 8,704 1,230 536 33,559 33,554 5,607 2,739 41,900 31,298 21,437 17,948 6,987 46,372 28,946	Registered net tonnage.  35,608 22,190 16,565 74,363 40,181 5,463 45,644 5,880 6,614 121 19,246 21,341 3,422 1,670 26,433 20,745 15,340 11,257 4,422 31,019 18,383	Panama Canal net tonnage. 44,533 27,843 19,215 91,591 49,544 6,768 56,312 7,284 8,209 8,120 700 123 24,436 25,211 4,156 3,059 32,426 24,217 16,461 13,001 5,081 34,543 23,676	Tons cargo.  69,644 24,505 32,088  136,237  58,977 5,656 64,633  5,056 2,183 1,819 721 Ballast 9,779 24,464 6,884 1,600 32,948 27,930 17,543 23,800 9,300 50,643 34,673	From—  E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cristobal Cris	To— Far East. Far East. Far East. Far East. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America.

No.	Registry.		Registered	Panama Canal net	Tons	Atlantie to Pacifi	ic.—Continued.
ships.	Registry.	gross tonnage.	tonnage.	tonnage.	cargo.	From-	То—
2 1 1	British French American	13,215 2,161 1,394	8,427 1,966 1,226	10,035 2,013 1,228	8,450 Ballast Ballast	Europe. Europe. Europe.	W. coast U. S. W. coast U. S. W. coast U. S.
4		16,770	11,619	13,276	8,450	Europe	W. coast U. S.
2	American	8,955	5,878	7,168	10,290	E. coast U. S	Philippines.
1	American	7,318	4,771	5,877	10,000	Mexico	W. coast U. S.
1	British	4,338	2,808	3,520	5,780	Cuba	Australia and N. Z'd.
1	British	3,536	2,281	2,570	384	Europe	W. coast C. America.
2	British	2,298	1,304	1,398	1,699	Cristobal	W. coast C. America.
1	American	3,404	2,163	2.459	2,526	Cuba	W. coast U. S.
1	American	2,403	1,804	1,769	3,100	E. coast U. S	British Columbia.
102		464.877	294 261	358,387	424,750		

# Projected Services from Seattle Through the Canal.

The following is abstracted from a news letter issued by the publicity bureau of the Chamber of Commerce of Seattle in June:

Five hundred Rotarians from the Rotary Clubs of the Northwest saw the steam-ship Rotarian, 7,500 ton-s, launched at Tacoma, June 17. The ship has been assigned to the new Shipping Buard Service from Seattle and other northern ports to River Platte, South America.

The new service between Scattle and Atlantic ports starting with the sailing of the steamship Artigas promises to be a successful one as full cargo has been secured

for the Shipping Board carriers coming from the east coast to Scattle.

A steamship service linking Seattle and other coast ports with Norway, Sweden, and Denmark will become effective September 1, according to announcement of W. C. Dawson & Co., local agents for Williams, Diamond & Co. The fleet will carry to the Scandinavian countries such commodities as lumber, grain, and foodstuffs, and will bring back cargoes for Atlantic, Gulf, and Pacific coast ports. Regular monthly sailings out of Seattle and other Pacific Coast ports for Copenhagen, Christiania, Gothenberg, and Maimo will be maintained under the new schedule.

# Return of the "Favorite" from Assisting the "Koyo Maru."

The salvaging ship Favorite returned to Cristobal on July 8 from her expedition in relief of the steamship Koyo Maru, stranded on Serrana Bank. Her master reported that the Koyo Maru was hung up about 74 to 75 feet, lying in a southeasterly direction. She had run on the northwest rock at full speed, approximately  $8\frac{1}{2}$  knots, although the engines were reversed shortly before striking. Her draft forward was 24 feet 6 inches prior to striking; when she came to rest there were 20 feet of water around the bow. Later she made a bed for herself in the coral rock, settling down to a draft of 24 feet. The plating around the No. 1 hold was punctured and this hold filled with water to the level of the sea. Both bow anchors were let go.

Up to the time that the *Nemesis* arrived, under orders from Lloyd's, to take charge of the wrecking operations, the *Favorite* worked with the purpose of removing cargo from the forward hold and piling it aft, after which the *Koyo Maru* was to be pulled off the bank and collision mats placed over her damaged plating, preparatory to bringing her to Cristobal. After the arrival of the *Nemesis* and her master's stating that no further help was required of the *Favorite*, the master of the *Koyo Maru* requested that the *Favorite* stand by for at least a few days for possible assistance. He expressed deep appreciation of the work which she had done and sent his thanks to the Canal authorities for their prompt assistance.

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight July 10, 1920.

THROUGH THE CANAL-ATLANTIC TO PACIFIC.

Panama Canal tonnage	Net	25.02.25.25.25.25.25.25.25.25.25.25.25.25.25	3.360 6.108 4.335 4.860 4.650 3.414 4.413 5.153 3.938 2,390 2,586 1,747	7 3, 492 7 7, 942 11 350
Panan	Gross	7,053 7,053 7,053 7,053 7,486 7,486 6,050 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589 1,589	130 6,108 7 7 7 7 7 7 7 7 7 7 7 7 8 153 8 153 8 153 8 153 8 153 8 154 155 155 155 155 155 155 155 155 155	5,037 12,267 3,429 741
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# Return of the "Cristobal" to Passenger Service.

The steamship *Cristobal* of the Panama Railroad Steamship Line arrived at Cristobal on July 8 from New York on her first voyage in regular service after being rebuilt at Balboa shops. Following her reconstruction and tests on the Isthmus, she was sent to New York (May 2) for the completion of her furnishings, and on July 1 sailed on her first voyage in passenger service, carrying 103 passengers and 3,190 tons of cargo for Cristobal. She is scheduled to clear on her return voyage to New York on July 16.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Two Weeks Ending July 10, 1920.

Name of vessel.	Line or charterer.	Arrived.	Departed.	Carg	go-
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Acajutla Parismina Achilles H. M. Flagler Calamares	Pacific Steam Navigation Co United Fruit Co Panama Railroad Steamship Line West India Oil Co United Fruit Co	June 28 June 28 June 29 June 29	June 28 June 30 July 2 June 30 June 30	848 †12,114 †2,540	60 49
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Salvador Cauca. Panama San Jose. Vancouver.	Pacific Steam Navigation Co. Pacific Steam Navigation Co. Panama Railroad Steamship Line. Pacific Mail Steamship Co. Royal Mail Steam Packet Co	July 2 July 2 July 2 July 3	July 3	23 4 1,726	70
Nika Calamares Capel Hall St. Louis	Hodge Steamship Co United Fruit Co United Fruit Co Fr. Cie. General Transatlantica	July 4 July 4 July 4 July 4	July 9 July 4 July 5 July 7	700 20 56 38	4½ 84}
Valparaiso Cartago Huasco Caribbean Logician	Johnson Steamship Line		July 4 July 6 July 4 July 4 July 4	804	1 45 12 ‡
Pastores Sudbury Santa Marta Europa	United Fruit Co. Pacific Steam Navigation Co. United Fruit Co. La Veloce Steamship Co.	July 6 July 6 July 7	July 7 July 8 July 7	32 144 20	261 443 97
Cauca Atenas Ancon Cristobal Caribbean	Pacific Steam Navigation Co United Fruit Co Panama Railroad Steamship Line. Panama Railroad Steamship Line. Panama Railroad Cattle Industry.	July 7	July 7 July 8	1,099	
Point Bomita. Faraday. Panama.	Pacific Mail Steamship Co	July 9 July 9	July 11	412	

*U. S. Army transport.

† Coal.

t Oil.

# Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending July 10, 1920.

				Cargo-	
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Dillwyn	Pacific Metals Corporation Standard Oil Co	July 4 July 4 July 8	July 4 July 5 July 6 July 8	10 1 320 1	Tons. 192 72

# In Memory of William Crawford Gorgas.

Following the death of Major General Gorgas in London on July 4, numerous memorial tributes were paid on the Isthmus, where he was Chief Sanitary Officer during the construction period of the Canal. On July 8 the Governor issued the following circular, naming in his honor the road through Ancon Hospital, one of his principal interests during his life on the Isthmus:

The circular of March 31, 1920, giving names to streets and roads in Ancon, Bal-

boa Heights, and Balboa, is amended as follows:

The road leading from Ancon post office through the grounds of Ancon Hospital to the top of the hill at the women's bachelor quarters, and known as "Hospital Road," is designated "Gorgas Road" in honor of the late General William C. Gorgas, U. S. A., former member of the Isthmian Canal Commission, and in commemoration of the many distinguished services rendered by him.

W. C. Gorgas was born in Mobile, Ala., October 3, 1854, and entered the medical service of the United States Army on June 16, 1880. He was chief sanitary officer in Habana from 1898 to 1902, and on June 2, 1904, was employed by the Isthmian Canal Commission, arriving on the Isthmus on June 28 as chief sanitary officer, serving in this capacity until April 6, 1914, when he was relieved from duty on the Isthmus and appointed Surgeon General of the Army. He became a member of the Isthmian Canal Commission on March 4, 1907, remaining a member until the Commission was succeeded by The Panama Canal, April 1, 1914. His service as Surgeon General included the major period of the World War; in the autumn of 1918 he reached the age limit and retired from the Army. For the rest of his life he was employed by the Rockefeller Foundation, devoting his time principally to combating yellow fever in its few remaining endemic centers in South and Central America. In October of 1919 he stated that the work had advanced to such a point that the complete extirpation of the disease from the world was assured.

# General Rules for Sales to Vessels by Private Concerns.

THE PANAMA CANAL, EXECUTIVE OFFICE, Balboa Heights, C. Z., July 1, 1920.

CIRCULAR No. 724.

1. The following rules are hereby established for the regulation and control of "runners" and "bumboatmen" in the harbors and other waters of the Panama Canal.

2. For the purpose of this circular a "runner" shall be considered a person representing a reputable business firm in solicitation of the sales of stores and chandlery to vessels; "bumboatmen" shall be considered persons actually operating boats for the direct sale of goods and wares to the crew or passengers of a vessel.3. Both "runners" and "bumboatmen" must have regular peddlers' licenses, and

In addition the special permits for the business in which they are engaged.4. Permits for "runners" and "bumboatmen" shall be issued by the Division of Civil Affairs, upon approval of the Captain of the Port and Quarantine Officer of the port for which application is made, and they shall be valid until revoked.

5. Violation of any of the rules or regulations contained herein, or any other rules or regulations of The Panama Canal, may be considered sufficient cause for the revocation of the permit granted the holder to do business as "runner" or "bumboatman."

#### RUNNERS.

6. A permit for runner shall be issued in the name of the firm making application, and must be in the possession of the runner when transacting business in Canal ports.

7. The firm or business shall be responsible for the conduct of any agent who has possession of runner permit issued to said firm or business, and any violation of these regulations, or other regulations of The Panama Canal, on the part of such agent may result in the revocation of the permit.

8. Runner permits shall be issued only to reputable and responsible firms capable of caring adequately and efficiently for the needs of vessels as to stores, supplies,

chandlery, etc.

9. Runners will be carried to arriving vessels in the same launch with Commissary runner upon payment of pro rata share of charge for service. Runners using private launches must start from docks in the Canal Zone. They must not operate from Panaman waters.

10. No runner shall board any vessel against the wishes of the master, or before the ship has been released by the Customs and Quarantine officials, and the quaran-

tine flag lowered.

11. Deliveries of supplies sold by runners may be made by the supply boats under the control of and at the rates fixed by the Captain of the Port, and all supplies must be ready for delivery in time to prevent delay to ship or interference with operation of the Canal.

12. The Chief Customs Inspector must be notified in advance of deliveries of supplies to a vessel, and he may require a list of the supplies to be delivered. Supplies returned undelivered must be shown on the list delivered to the Customs.

#### BUMBOATMEN.

- 13. Bumboat licenses shall be issued only to persons of good character and reputation.
- 14. Bumboatmen must submit a list of stock to the Customs before they will be permitted to do business or enter harbor limits, and this stock may be checked upon return or at any other time by Customs officers.

15. Bumboatmen must have their licenses in their possession when engaged in their business and at no time shall they carry with them more than one assistant.

16. Bumboatmen shall not go aboard any vessel.

17. Bumboatmen shall not charge unreasonable or exorbitant prices, and any fruits or other foodstuffs sold must be in a clean and wholesome condition.

18. Bumboatmen shall not sell to ships' crews except for cash.

19. Bumboatmen shall not sell or have in their possession any drugs, intoxicants, or bottled goods of any description.

#### BUMBOATS.

20. Bumboats must be seaworthy and serviceable craft.

21. Bumboats shall not go alongside any vessel within the terminal ports without

permission of the commanding or other officer in charge.

22. Bumboats shall not attempt to go alongside of nor approach within 200 feet of a vessel until such vessel has been properly anchored and released by the Customs and Quarantine officials, and the quarantine flag has been lowered. 23. Bumboats, if alongside a vessel while at anchor, shall immediately leave when

that vessel gets under way, and shall at no time attempt to go alongside a vessel while

under way.

24. Bumboats lying alongside the gangway of a vessel at anchor shall at all times

give the right of way to all official launches and boats.

25. Bumboats will not be permitted to go'alongside of vessels at the docks, including the coaling plant.

26. Bumboats will be permitted to go alongside of vessels only between 7 a. m.

and 6 p. m.

27. Except in running to and from ships, bumboats will not be permitted to operate in the slips and waters surrounding the docks, and will not be permitted to leave the wharf except by express permission of the Port Captain's office.

28. Bumb, ats shall not operate from Panaman territory, but must enter and leave via the main entrance at the terminal building and have their wares inspected by the

Customs officials, both going and coming.

29. Bumboats will not be permitted to carry passengers or members of the crews

to and from ships.

30. Bumboats shall have their license number prominently displayed on both bows and across the stern of the boat. Numbers on bow must be not less than 8 inches and across the stern not less than 4 inches in height.

31. Bumboats shall at no time interfere with navigation of Canal waters by transiting ships, and The Panama Canal will not be liable for any damage to bumboats.

CHESTER HARDING,

Governor.

# Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C." Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

#### Commercial Radio Service Extended to Republic of Panama, Colombia, Ecuador, and Venezuela.

The District Communication Superintendent of the Fifteenth Naval District has issued the following circular notice under date of July 1,

1920:

The Naval Communication Service is now prepared to handle commercial as well as official radio traffic between the Canal Zone and the Republic of Panama, Colombia, Ecuador, and Venezuela. Messages may be filed at either Balboa radio station, Panama Railroad telegraph offices, or Panama National telegraph offices. Messages to Colombia, Ecuador, and Venezuela are sent by radio from Balboa radio station to Puerto Obaldia radio station, thence to Cartagena radio station, Colombia. Messages to all parts of Colombia, Ecuador, and Venezuela are then transmitted from Cartagena by telegraph.

Charges from Balboa radio station to Cartagena city: 22 cents per word for Spanish and 24 cents for English or code. For all other points in Colombia, Ecuador, and Venezuela: 28 cents per word for Spanish and 36 cents for English or code. If messages are filed at any place other than Balboa radio station, telegraph rates are charged in addition to allow.

are charged in addition to above.

The radio station at Cartagena was commissioned on June 6, 1920, and the schedules between the United States naval radio stations of the Fifteenth Naval District and the Cartagena station were made effective July 1. The Cartagena radio station is operated by a German company.

Evening Launch to Leave for Taboga at Half-past Four.

Effective Tuesday, July 20, the hour of departure of the daily launch from Dock 19, Balboa, to the Hotel Aspinwall on Taboga Island will be changed from 5 p. m. to 4.30 p. m. This is done for the convenience of those commuting to and from Taboga, who will be enabled to return earlier to their families at Taboga. In other respects the schedule is to remain the same.

Aquatic Sports at Taboga.

A regatta is to be conducted in front of the Hotel Aspinwall on Sunday, July 18, under the supervision of the director of swimming of the Bureau of Clubs and Playgrounds. This will consist of cayuco and sailing boat races, aquaplaning, swimming and diving contests, etc., and will be participated in by residents of Taboga as well as guests of the Aspinwall.

Fish Caught in Gatun Lake.

Persons who have been fishing in Gatun Lake are requested to advise the Chief Quartermaster regarding any fish they may have caught. This information is also desired from persons who may fish in the lake in the future.

Several years ago the lake was stocked with black bass, rock bass, sunfish, and bullheads obtained from the Bureau of Fisheries in Washington, and that department is anxious to know the result of this planting.

#### Sale of Budded Nursery Stock of Citrus Fruit Trees.

The citrus grove at Juan Mina has for disposal 1,000 to 1,500 budded nursery stock trees of the following fruits:

Oranges: Pineapple, len gin gong, Mediterranean sweets, valencias, washing navel.

Villafranca lemons.

Satsuma limes.

All stock is free from disease and properly labeled. The price is \$1.50 each, f. o. b. Gamboa.

#### Prices of Miscellaneous Supplies.

The following are prices to individuals and companies, including the 25 per cent surcharge, effective July 1, 1920:

Commodity.	Unit.	Price.
Brass, bar	Lb.	\$0.48
Brass, sheet	Lb. Lb.	.75 .43
Cement, at Panama:		
Departments of United States Government (including surcharge and bags)	Bag Bag	1.1925
Credit for empty bags returned.  Individuals and companies (including surcharge and bags)  Credit for empty bags returned.	Bag	1.765
	Bag	.25
Departments of United States Government (includes surcharge and bags)	Bag	1.0475
Credit for empty bags returned.  Individuals and companies (including surcharge and bags).  Credit for empty bags returned.	Bag Bag	.085 1.58
Credit for empty bags returned	Bag Cwt	.25
Copper, bar	Lb.	1,25 .46
Charcoal. Copper, bar Gasoline, in drums (motor grade) Lead, sheet. Lead, pig. Lumber, ceiling, siding, and flooring, 1" by 6". Lumber, flooring, 1" by 3" and 1" by 4". Lumber, yellow pine or fir (except ceiling).  Metal, yellow Nuts, iron, machine, hexagon Nuts, iron, machine, square Nails, common, wire Nails, galvanized. Oakum, Navy, spun.	Gal. Lh.	.56
Lead, pig.	Lb.	125
Lumber, flooring, 1" by 3" and 1" by 4".	M ft. B. M. M ft. B. M.	118.75 143.75
Lumber, yellow pine or fir (except ceiling)	M ft. B. M.	100.00
Nuts, iron, machine, hexagon	Lb. Lb	.375
Nuts, iron, machine, square	Lb.	.25
Nails, galvanized.	Lb Lb	.075
Oakum, Navy, spun. Oakum, Navy, unspun. Oil, fuel, at Balboa and Cristobal—in bulk:	Lb Lb.	.20 20
Oil, fuel, at Balboa and Cristobal—in bulk:		
United States Army and Navy, and vessels operated by same, barrel of 42 gallons Commercial vessels and individuals and companies, barrel of 42 gallons	Bbl Bbl.	2.50 2.50
Oil, fuel, at Cristobal and Balboa—in drums and barrels: United States Army and Navy and vessels operated by same, barrel of 42 gallons Commercial vessels and individuals and companies, barrel of 42 gallons		
Commercial vessels and individuals and companies, barrel of 42 gallons	Bbl. Bbl.	2.75 2.75
Oils, greases, and lubricants:		
Oil, ammonia cylinder.	Gal. Gal	.56 .50
Oil, burning	Gal Gal	.50 1.56
Oil, cylinder, dark marine	Gal	.875 1.25
Oil, greases, and lubricants: Oil, air compressor cylinder. Oil, burning. Oil, cylinder, dark marine. Oil, cylinder, dark marine. Oil, ice machine, steam. Oil, lee machine, steam. Oil, lengine, dynamo. Oil lengine—in tins	Gal Gal	1.00
Oil, engine, dynamo. Oil engine—in tins. OM, engine—in barrels. Oil, gas engine, extra heavy—in drums. Oil, gas engine, heavy—in barrels. Oil, gas engine, heavy—in cases. Oil, gas engine, medium—in drums. Oil, kerosene—in drums. Oil, kerosene—in in (cases). Oil, lingerd boiled.	Gal	. 69
Oil, gas engine, extra heavy—in drums	Gal Gal	.54
Oil, gas engine, heavy—in barrels	Gal	.69
Oil, gas engine, neavy—in cases Oil, gas engine, medium—in drums	Gal. Gal.	.75 .56
Oil, kerosene—in drums	Gal.	.375
Oil, kerosene—in tins (cases) Oil, linseed, boiled Oil, linseed, raw Oil, locomotive engire Oil, lard. Oil, marine engine. Oil, marine engine. Oil, marine engine.	Gal. Gal.	.44 2.50
Oil locomotive engine	Gal Gal	2.60
Oil, lard	Gal	2.07
Oil, marine engine.	Gal Gal	1.06 .625
Oil, marine engine	Gal	44
Oil, "Mineral Seal".	Gal Gal	.75 .375
Oil, marine engine Oil, marine engine Oil, marine engine Oil, "Mineral Seal" Oil, nonliquid Oil, stationary engine Oil, sterm	Lb. Gal.	.10 .375
(bil. sperm	Gal.	2.875
Uil, stationary engine (iil, sperm (iil, sperm (iil, signal) (iil, valve (iil, valve (iil, car (Frease, black, gear. (Grease, yellow, cup, No. 3 (Grease, yellow, cup, No. 5 (Grease, tunnel bearing. Tallow Tallow	Gal Gal	1.375
Oil, car	Gal	225
Grease, yellow, cup, No. 3.	Lb. Lb.	0.075 $1.25$
Grease, yellow, cup, No. 5	Lb.	1.25 .14 .225
Grease, tunnel bearing	Lb. Lb	.19
Tallow	Lb. Gal.	.225 2,69
Turpentine. Turpentine substitute Vascline	Gal.	.46
Paint, lead, white, dry	Lb. Lb	.11 .125
Paint, lead, white, in oil.	Lb.	. 175
Paint, zinc, white, in oil.	Lb Lb.	. 225
Paint, lead, white, dry. Paint, lead, white, in oil. Paint, zinc, white, dry. Paint, zinc, white, in oil Paint, zinc, white, 35 per cent in oil Rivets.	Lb.	. 19
Rivets Rope, Manila, 1'' diameter Rope, Manila, 1'' diameter Rope, Manila, 1'' diameter	Lb. Cft.	.10 .69
Kope, Manila, 3" diameter	Cft.	1.50

Commodity.	Unit.	Price.
Rope, Manila, ½" diameter	Cft.	\$2,50
Rope, Manila, %" diameter	Cft	4.08
Rope, Manila, 1" diameter	C ft.	4.88
Rope, Manila 1" diameter		6.75
Rope, Manila, 1" diameter		8.75
Rope, Manila, 1 1 diameter.	Čft.	12 50
Rope, Manila, 13" diameter		19.69
Rope, Manila, 13" diameter		26.84
Rope, Mania, 17 diameter	Cft.	31.25
Rope, Manila, 2" diameter	64.0	46.88
Rope, Manila, 23" diameter		76 25
Rope, Manila, 3" diameter		
Rope, Manila, 3½" diameter		91.25
Rope, Manilla, 4" diameter		111.44
Steel, bar	Lb.	.08
Steel, spring.	Lb	.21
Steel, cold round (rolled).	Lb	.20
Steel sheet	Lb.	.06
Steel, structural (angles, beams, etc.)		06
Tin, block		.79
Tin. Banca		75
Tin. sheet		.225
Washers, out		.09
	- T	21
Waste, colored	Lb.	20
Waste, white	Lb.	17
Zinc, boiler plate, {" by 6" by 12"	110.	1 .11

#### Complaints Concerning Working Condit'ons.

BALBOA HEIGHTS, C. Z., July 13, 1920

Col. JAY J. MORROW,

Engineer of Maintenance, Balboa Heights, C. Z.

Mr. W. C. Hushing,

Balboa, C. Z.

Mr. Harvey McConaughey, Balboa, C. Z.

Sirs:

1. A Board is hereby appointed to make investigations and appropriate recommendations to the Governor in the matter of such complaints of employees concerning working conditions as may be from time to time referred to it. The Board will be composed of the Engineer of Maintenance, two employees as representatives of organized labor, viz., Messrs. W. C. Hushing and Harvey McConaughey, and, in each case, the head of the department or division in whose jurisdiction the complaint originates.

2. The functions of the Board are wholly advisory, and its findings and recom-

mendations will not be effective until approved by the Governor.

3. Complaints against administrative policies of the Canal and Panama Railroad will not, in general, be referred to the Board; but the Governor may require the Board to make recommendations to him on any matter involving the general welfare of

employees.

4. The following procedure will be followed preliminary to the reference of complaints to the Board: An individual employee or a group of employees belonging to a labor organization affiliated with the American Federation of Labor will present the complaint to the proper local union or shop committee, who will endeavor to adjust the matter with the immediate superiors of the employee or employees concerned, including division or department heads. Unless adjusted, this complaint will then be submitted to the Panama Metal Trades Council or Central Labor Union, as the case may require, in complete form, and if the proper officers or committees of these bodies can not arrange satisfactory settlement, the case will be forwarded by them to the Governor, with request for reference to the Board. Cases which from their nature require immediate action may be submitted to the Governor by the President and Secretary of the Metal Trades Council or Central Labor Union, with the facts and reasons clearly stated. The complaint may then be referred to the Board by the Governor, if practicable.

5. The Board is authorized to formulate its method of procedure.

6. It will be noted that the Board is to act on the complaints of members of labor organizations affiliated with the American Federation of Labor only. The right of all employees, individually or collectively, whether members of a labor organization or not, to make complaint to the Governor, will be continued.

7. The Bureau of Statistics will keep a record of all meetings and proceedings

of the Board.

8. Additional instructions will be issued from time to time as may be necessary.

Respectfully,

CHESTER HARDING, Governor.

#### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Board of Civil Service Examiners, Balboa Heights (telephone 286):

Assistant in citrus quarantine (male and female); \$1,200 to \$1,400 a year; August 4, 1920; form

1312; age, 21 years but not 40 years. Auto mechanic (male and female); \$1,200 a year; No. 395; August 3, 1920; form 1800; age, 18 vears and over.

Constructor of educational material (male and female); \$2,200 a year; August 3, 1920; form 1312; age, not stated.3

Free-hand draftsman, Patent Office (male and female); \$1,000 a year; No. 388; July 27, 1920;

form 1312; age, 18 years and over.

Highway engineer, Bureau of Public Roads, Department of Agriculture (male and female); \$2,100 to \$2,700 a year; September 9, 1920; form 1312; age, under 30 years.*

Junior civil engineer (male and female); \$1,500 a year; August 3, 1920; form 1312; age, 20 years

but not 25 years.* Junior engineer, civil, electrical, mechanical, signal, structural, telegraph, and telephone; grade 2; (male and female); \$720 to \$1,440 a year; No. 184-amended; form 1312; age, 18 years but not 60

Junior engineer, civil, electrical, mechanical, signal, structural, telegraph, and telephone; grade 1; (male and female); \$1,500 to \$1,920 a year; No. 345-amended; form 1312; age, 18 years but not 60

years.† Junior architect (male and female); \$1,320 to \$1,920 a year; No. 345-amended, form 1312; age, 18

years but not 60 years.†
Metallurgist (male and female; \$10.80 a day; No. 411; form 1312; August 3, 1920; age, 25 years

but not 45 years.*

Rodman and chainman, Interstate Commerce Commission (male and female); \$720 to \$1,080 a year; No. 378-amended; form 1800.

Structural engineer, Construction Division, War Department (male and female); \$1,800 a year;

No. 387; July 27, 1920; form 1312; age, 21 years and over.*

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications and they must be in the lands of the Commission at Washington prior to the hour of closing business on that day

tNonassembled. Applications will be received at any time until further notice.

#### Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Admin strator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No. Native of		Isthmian residence.	Employed by—	Date of death.
Arthur Folcey Pedro Gahano Jose Sanchez John Jordan John von Redhead.	41853 30213 21414	Mexico Spain Barbadoes	Camp Manawa Panama Cristobal	Mechanical Division	June 28, 1920. June 20, 1920. June 25, 1920.

#### Official Circulars.

#### Act of Congress-Fortifications Appropriations, 1921.

THE PANAMA CANAL, EXECUTIVE OFFICE,

Balboa Heights, C. Z., June 16, 1920. CIRCULAR No. 600-69:

concerned.

The extracts from an Act of Congress quoted below are published for the information of all

CHESTER HARDING.

AN ACT Making appropriations for fortifications and other works of defense, for the armament thereof, and for the procurement of heavy ordnance for trial and service, for the fiscal year ending June 30, 1921, and for other purposes.

purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the following sums are appropriated, out of any money in the Treasury not otherwise appropriated, for fortifications and

other works of defense, for the armament thereof, and for the procurement of heavy ordnance for trial and service, for the fiscal year ending June 30, 1921, and for other purposes, namely:

#### PANAMA CANAL FORTIFICATIONS.

For fortifications and armament thereof for the Panama Canal:

For maintenance of clearings and trails, \$30,000; For protection, preservation, and repair of fortifications, of the Panama Canal, including structures erected for torpedo defense, and for maintaining channels for access to torpedo wharves, \$25,000;

For maintenance and repair of searchlights and electric light and power equipment for fortifica-tions, and for tools, electrical and other supplies, and appliances to be used in their operation, \$20,000;

For the construction of seacoast batteries on the Canal Zone, \$20,000;

For reserve engineer equipment for the fortifications of the Panama Canal, \$7,500;
For the purchase or reclamation of land re-

quired for the defenses of the Panama Canal, \$6,250;

For the construction of fire-control stations, the purchase and installation of accessories therefor, and for subaqueous, sound and flash ranging ap-

and for subaqueous, sound and flash ranging apparatus, including their development, \$474,000.

For operation and maintenance of fire-control installations at sea-coast defenses, \$15,000;

For the purchase, manufacture, and test of ammunition for seacoast and land defense cannon, including the necessary experiments in concetion therewith, and the machinery necessary for its manufacture, \$1,000,000.

For the alteration and maintenance and instal-

For the alteration and maintenance and instal-For the alteration and maintenance and instal-lation of the seacoast artillery, including the purchase and manufacture of machinery, tools, and materials necessary for the work, and ex-penses of civilian mechanics, and extra-duty pay of splight, man engand thereon. \$104,546. of enlisted men engaged thereon, \$104,546

submarine mine materiél, \$4,138;
For continuing the For continuing the construction of barracks, quarters, storehouses, and other buildings necessary for accommodating the Coast Artillery troops to be stationed in the vicinity of the Panama Canal, including water, sewer, and electrical systems, roads, walks, and so forth, \$40,000;

The Governor of the Panama Canal, so far as the expenditure of appropriations contained in this Act may be under his direction, shall purchase needed materials, supplies, and equipment from available surplus stocks of the War Department. For the purchase, manufacture, maintenance, operation, and repair of airships and other aerial machines, buildings, for equipment, and other aercessories necessary in the Air Service for use in Panama Canal, \$100; For continuing the construction of barracks,

Panama Canal, \$100;

Panama Canal, \$100;
For the establishment, construction, enlargement, or improvement of the aviation station at France Field, Canal Zone, for use in connection with the seacoast defenses of the Panama Canal, including the acquisition of land or any interest in land by purchase, lease, condemnation, or otherwise, and the preparation necessary to make the same suitable for the purpose intended, and for the acquisition and improvement of emergency landing fields in the Canal Zone. \$239,000;
In all, specifically for fortifications and armament thereof for the Panama Canal, \$1,985,534;
SEC. 2. That all material purchased under the provisions of this Act shall be of American manufacture, except in cases when, in the judgment of the Secretary of War, it is to the manifest interest of the United States to make purchases abroad, which material shall be admitted free of duty.

which material shall be admitted free of duty.

SEC. 3. That except as expressly otherwise authorized herein no part of the sums appropriated by this Act shall be expended in the purchase from private manufacturers of any material at a price in excess of 25 per centum more than the cost of manufacturing such material by the Government or, where such material is not or has not been manufactured by the Government, at a price in excess of 25 per centum more than the esti-mated cost of manufacture by the Government.

SEC. 4. That expenditures for carrying out the provisions of this Act shall not be made in such manner as to prevent the operation of the Government arsenals at their most economical rate ernment arsenals at their most economical rate of production, except when a special exigency requires the operation of a portion of an arsenal's equipment at a different rate: Provided, That no part of the appropriations made in this Act shall be available for the salary or pay of any officer, manager, superintendent, foreman, or other person having charge of the work of any employee of the United States Government while making or against the made with a stop watch or making or causing to be made with a stop watch or other time-measuring device a time study of any job of any such employee between the starting and completion thereof, or of the movements of any such employee while engaged upon such work.

SEC. 5. That no part of the moneys appropriated in each or any section of this Act shall be used or expended for the purchase or acquirement of any article or articles that at the time of the proposed acquirement can be manufactured or produced in each or any of the Government arsenals of the United States for a sum less than it can be purchased or procured otherwise.

Sec. 6. That all orders or contracts for manu-SEC. 6. That all orders or contracts for manufacture of material pertaining to approved projects, which are placed with arsenals or other ordnance establishments and which are chargeable to armament of fortifications appropriations, shall be considered as obligations in all respects in the same manner as provided for similar orders placed with commercial manufacturers.

SEC. 7. That whenever any Government bureau or department procures, by purchase or manufacture, stores or materials of any kind, or manufacture, stores of materials of any kind, or performs any service for another bureau or department, the funds of the bureau or department for which the stores or materials are to be procured or the service performed may be placed subject to the requisitions of the bureau or department the principle of the procurement or performing the ment making the procurement or performing the service for direct expenditure: Provided, That funds so placed with the procuring bureau shall remain available for a period of two years for the purposes for which the allocation was made unless

sooner expended;
SEC. 8. That the following unexpended balances or portions of the unexpended balances, or combined unexpended balances, or portions of combined unexpended balances of appropriations for fortifications and other works of defense, as set forth in this section, shall be carried to the surplus fund and covered into the Treasury immediately upon the approval of this Act, namely:

Sea walls and embankments, Panama Canal,

\$3,000.

Submarine mine structures, \$15,200; Armament of fortifications, Panama Canal, \$2,306,481.73.

Submarine mines, Panama Canal, \$231,082.21. *

Approved, May 21, 1920.

#### Act of Congress-Payment to Panama, Relief and Protection of American Seamen.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., June 24, 1920.

CIRCULAR No. 600-71:

The extracts from an Act of Congress quoted below are published for the information of all concerned.

CHESTER HARDING, Governor.

AN ACT Making appropriations for the Diplomatic and Consular Service for the fiscal year ending June 30, 1921.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the following sums be, and they are hereby, severally appropriated, in full compensation for the Diplomatic and Consular Service for the fiscal year ending June 30, 1921, out of any money in the Treasury not otherwise appropriated, for the objects hereinafter expressed. namely:

#### PAYMENT TO THE GOVERNMENT OF PANAMA.

To enable the Secretary of State to pay to the To enable the Secretary of State to pay to the Government of Panama the ninth annual payment, due on February 26, 1921, from the Government of the United States to the Government of Panama under article 14 of the treaty of November 18, 1903, \$250,000. *

RELIEF AND PROTECTION OF AMERICAN SEAMEN.

Relief and protection of American seamen in foreign countries, and in the Panama Canal Zone, shipwrecked American seamen in the Territory of Alaska, in the Hawaiian Islands, Porto Rico, and the Philippine Islands, \$100,000.

sk Approved, June 4, 1920.

#### Act of Congress-Army Appropriation, 1921.

THE PANAMA CANAL, EXECUTIVE OFFICE.

BALBOA HEIGHTS, C. Z., June 28, 1920.

CIRCULAR No. 600-73:

The extracts from an Act of Congress quoted below are published for the information of all concerned.

CHESTER HARDING.

AN ACT Making appropriations for the support of the Army for the fiscal year ending June 30, 1921, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the following sums be, and they are hereby, appropriated, out of any money in the Treasury not otherwise appropriated, for the support of the Army for the very ending June the support of the Army for the year ending June

#### MEDICAL DEPARTMENT.

MEDICAL AND HOSPITAL DEPARTMENT.

For the manufacture and purchase of medical and hospital supplies, including disinfectants, for military posts, camps, hospitals, hospital ships and transports, for laundry work for enlisted men and Army nurses while patients in a hospital, and supplies required for mosquito destruction in and about military posts in the Canal Zone, \$3,500,000: Zone, \$3,500,000:

#### HOSPITAL CARE, CANAL ZONE GARRISONS.

For paying the Panama Canal such reasonable For paying the Panama Canal such reasonable charges exclusive of subsistence, as may be approved by the Secretary of War for caring in its hospitals for officers, enlisted men, military prisoners, and civilian employees of the Army admitted thereto upon the request of proper military authority, \$60,000: Proriedd. That the subsistence of the said patients except commissioned officers, shall be paid to said hospitals out of the appropriation for subsistence of the Army at the rates provided therein for commutation of rations for enlisted patients in general hospitals. for enlisted patients in general hospitals.

Approved June 5, 1920.

#### Act of Congress-Third Deficiency Appropriation, 1920.

THE PANAMA CANAL, EXECUTIVE OFFICE

BALBOA HEIGHTS, C. Z., June 30, 1920. CIRCULAR No. 600-74:

The extracts from an Act of Congress quoted below are published for the information of all concerned.

CHESTER HARDING, Governor.

AN ACT Making appropriations to supply defi-ciencies in appropriations for the fiscal year ending June 30, 1920, and prior fiscal years, and for other purposes.

and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the following sums are appropriated, out of any money in the Treasury not otherwise appropriated, to supply deficiencies in appropriations for the fiscal year ending June 20, 1020, and prior feed these and feed the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se 30, 1920, and prior fiscal years, and for other purposes, namely:

#### DEPARTMENT OF STATE.

FOREIGN INTERCOURSE. *

RELIEF AND PROTECTION OF AMERICAN SEAMEN—Relief and protection of American seamen in foreign countries, and in the Panama Canal Zone, and shipwrecked American seamen in the Territory of Alaska, in the Hawaiian Islands, Porto Rico, and the Philippine Islands. \$35,000.

#### GOVERNMENT PRINTING OFFICE.

Hereafter the head of each department and independent establishment of the Government shall on the first day of each regular session submit in writing a report to the Congress giving the aggregate number of the various publications it has issued during the preceding fiscal year giving same in detail, and shall also report the cost of parent used for such sublications exert of printing paper used for such publications, cost of and the cost of preparation of each publication, and the number of each which has been distributed.

SEC. 5. That this Act hereafter may be referred to as the "Third Deficiency Act, fiscal year 1920." Approved June 5. 1920.

#### Travel Time.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., July 1, 1920.

CIRCULAR No. 603-17:

Effective July 1, 1920, the following rules will govern in timekeeping when necessary to send employees away from their regular stations:

1. If the work to be performed required the employee to be away from his regular station more than 24 hours he will be temporarily quartered at the place where the work is to be per-formed, and will be allowed 4 hours travel time at his regular rate of pay, this allowance to cover all time required for checking out of tools, transit time, transportation, and arrangements for bag-

gage.

2. If the work to be performed does not quire the employee to be away from his regular station 24 hours he will be paid in accordance

station 24 hours ne will be paid in accordance with the following rules:

(a) Mechanical Division—Will be paid regular rate of pay only while traveling or waiting for transportation. Overtime will be allowed only for work performed on the job in excess of regular working hours.

(b) Other Divisions—Ten hours will be considered to exceed the travel point between the time.

ered a reasonable time clapsing between the time train or boat is scheduled to leave residence station and return thereto, in order to accomplish 8 hours work with a lunch period. If a longer period than this elapses, the following rules for payment will be followed:

During the time clapsing between scheduled train times at point of work men may work in excess of 8 hours, but, except in emergency, will not be required to so work.

CHESTER HARDING, Governor, The Panama Canal. President, Panama Railroad Company.

#### Acting Chief of Police and Fire Division.

THE PANAMA CANAL EXECUTIVE DEPARTMENT, BALBOA HEIGHTS, C. Z., July 6, 1920

HEADS OF DEPARTMENTS AND DIVISIONS:

Police Inspector Arthur W. Kennedy will act as Chief of the Police and Fire Division during the absence on leave of Mr. Guy Johannes. effective July 8, 1920.

CHESTER HARDING, Governor.

#### Appointment.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., June 28, 1920.

CIRCULAR No. 661-87:

Effective this date. Mr. Frederick de V. Sill is appointed Chief Admeasurer, Balboa, and Member, Board of Admeasurement, vice Lieutemant Malcolm C. Davis, U. S. N., relieved from duty with The Panama Canal.

CHESTER HARDING, Governor.

#### Vacation Money.

THE PANAMA CANAL, EXECUTIVE DEPARTMENT, BALBOA HEIGHTS, C. Z., July 8, 1920.

HEADS OF DEPARTMENTS AND DIVISIONS:

In case an employee on leave of absence desires his vacation money forwarded to him, it will be necessary that he furnish the Paymaster a release from property responsibility before leaving the Isthmus.

C. A. MCILVAINE, Executive Secretary.

#### Change in Taboga Launch Schedule.

A number of guests of the Hotel Aspinwall requested that the launch for Taboga leave Bal-boa at 4.30 p. m. instead of at 5.00 p. m. Accordingly the launch will leave at 4.30 p.m., commencing on July 20. This will give guests an opportunity for a swim before dark on arrival at Taboga.

R. K. Morris, Chief Quartermaster.

### Sale of Bollers, Blower, Crane, Drills, Engine, and Tractor.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10.30 a. m., July 20, 1920, and then opened, for the purchase of aforementioned obsolete equipment on hand at Cristobal storehouse. Form of proposal may be had upon application to the office of the Chief Quartermaster, or the storekeeper at Cristobal. The Paname Canal receives the right to reject any or Panama Canal reserves the right to reject any or all bids.

#### Sale of Steel Rails.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., up to 10,30 a. m., July 15, 1920, and then opened, for the purchase of about 24,124 pounds of 135-pound steel rails on hand at Balboa storehouse. Form of proposal may be had upon application to the Chief Quartermaster, or the General Storekeeper at Balboa. The Panama Canal reserves the right to reject any or all hids. bids.

#### Misdirected Letters.

BALBOA HEIGHTS, C. Z., July 12, 1920.

The following insufficiently addressed mail matter has been received in the office of the Director of Posts and may be obtained upon request of the addressees. Requests for forwarding may be made by telephone, calling No. 182 Balboa.

Angle, Clyde

Cummings, Alfred Demetri, Adris Eney, C. J. Fenn, Zack Gibbs, Robert

Angle, Clyde
Arbuckle, Jeff
Arbuckle, Jeff
Ashton, J. S.
Bend, William
Bernardi, E. R., Box 143
Bielitz, Ad., Box 447
Blakeslie, Mrs. B. M.
Bouchard, A. E., Box 95
Burns, Joseph, Box 1332
Burns, Joseph, Box 1332
Burns, Joseph, Box 1332
Burns, Lee
Canton, R.
Corvalles, Amalia, Box 408
Crawford, B. H.
Cummings, Alfred
Demetri, Adris
Eney, C. J.
Fenn, Zack
Hurest, Mrs. C. U.
Johnston, Allen
King, Dr. Paul R.
Laney, C. J., Box 106
Lester, Mrs. Frank
Lester, Mrs. Cabriel
Misch Period
Ring, Dr. Paul R.
Leney, C. J., Box 106
Mahedy, Paul
Mendoya, Joseph M.
Miller, John C., Box 167
Mohoa, Walter Roy
Mowatt, Neville
Potts, David Hurest, Mrs. C. U. Fenn, Zack
Gibbs, Robert
Giesenow, Martin
Gillespie, J. B,
Gray, Henry J.
Gray, Martin A.
Gray, Martin A.
Gray, Martin A.
Gray, Rev. Raymond
Turner, W. P.
R.
Halfast, Ida E.
Hanzlick, James
Hoffman, Mrs. Grover
Holt, Rufus Leroy
Holt, Rufus Leroy
Harvey

Stephens: J. C.
Stevenson, Andrew M.
Straight, Ben F.
Van Hook, Noah L.
Walker, J. B.
Wheeler, D. W.
Wileet, D. W.
Wileet, Mrs. R. A.
Box 595 Prosser, J. H. Rodman, John W. Stephens, John Stevenson, Andrew W.

## pago OCEAN VESSELS.—Continued from OF MOVEMENTS

PORT OF CRISTORAL-Continued

Date. Vessel. United States Uly 7. Lake Fariston. United States Uly 8. Arubin (e). Panama Plant Uly 8. Gen-Garbboan. Panama Railt Uly 9. Gen-Garbboan. Panama Railt Uly 9. San Pablo. United Fruit Uly 9. San Pablo. United Fruit Uly 9. Anary Uly 3. Mina Brea. International	LS. *DEPARTURES.	Line. From— Date. Vessel. Line. For—	United States Shipping Board. Cartagena. July 8 Cartago. Cartagena. July 8 Cartago. United Fruit Co. Colon. July 8 Cartago. United Fruit Co. Colon. July 8 Cartago. Cartago. Cartago. Cartagona. July 8 Cartago. Cartago. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Cartagona. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Calon. Cal	PORT OF BALBOA.	*DEPARTURES.	Petroleum Co Pisagua, July 8 Lake Elkwater United States Shipping Board Honolulu.
Vessel. Lake Fariston Arubia (e) Caribbean Gen. G. W. Goethal Gen. G. W. Goethal San Pablo Mina Brea	*ARRIVALS.	Line.	United States Shipping Board Panama Plantation Syndicate Panama Railroad Carle Industry Panama Railroad Stemsinp Jino. Panama Railroad Stemsinp Lino. United Fruit Co.		*ARRIVALS.	International Petroleum Co Pisagua.
			Lake Fariston. Arubia (e) Caribbean Gen. G. W. Goetlals. Cristobal San Pablo			Mina Brea

#### COMMISSARY NOTES.

#### Sheet Music.

Another shipment of sheet music has been received and is meeting with ready sale In the retail commissaries. All stores now have a complete assortment of popular music of this description among which customers will find a large number of good titles.

#### Electrical Heaters.

Inasmuch as The Panama Canal storehouses will no longer carry in stock electric water heaters except for use by the Electrical Division, the Commissary Division will accept deposit orders from employees desiring to purchase such heaters and these appliances will then be ordered for them from the United States.

#### Chickens.

There are now being sold in the commissaries broilers from thoroughbred stock specially selected for table purposes. Since January 1, 1920, Summit farm, operated by the Cattle Industry, The Panama Canal, has raised only stock of this type according to recognized expert methods, the highest grade of chicken feed having been imported from the United States to ensure the best results. The pains taken seem amply justified for the benefit is now being received by customers who have the opportunity to buy plump, tender broilers locally raised which will run from 11/2 to 2 pounds in weight.

To those who do not know the enjoyment of properly broiled poultry, it may be added that important points to be remembered are: To season the meat before putting on the gridiron; to have a clear bright fire; quickly to brown both sides to prevent loss of juices; to avoid dripping fat into the fire, as this results in jerky, smoky flames which are liable to spoil the flavor of the meat, and not to over-cook.

#### Recipes—Beef.

Two recipes for dishes prepared from the chuck not previously printed are given

below for the use of interested commissary customers.

Beef goulash—Cut the beef into cubes or slices and sprinkle with vinegar and a little summer savory. Add a teaspoonful of salt, and half teaspoonful of paprika; cook six onions for each two pounds of meat slowly, in one-fourth of a cup of butter, oleomargarine, or other preferred fat. Add the cooked onions to the meat, cover tightly, and cook slowly for about 2 hours. The liquid may be increased just before serving by the addition of a little beef stock, or either sweet or sour cream.

Pot roast—Use a Dutch oven (an iron kettle with an iron or other cover) or a heavy frying pan well heated. Place the fat side of the meat down first; when well crisped, turn and brown the other side thoroughly; season with salt, pepper, parsley, and a little onion or garlic if preferred. An onion with two or three cloves stuck in it may be browned lightly with the meat. The meat should then be cooked in the same utensil, tightly covered or in the kettle from the fireless cooker. Let it simmer until quite tender, turning once during the cooking. Use no water as the tight cover will hold in all the moisture. Allow about an hour to a pound for cooking. Some cooks prefer to use a little water, but this is not necessary. Make a gravy of the brown fat, an equal amount of flour, and water or stock. Noodles or macaroni may be served in the gravy as a separate dish.

#### Books.

#### Books received:

Books received:

"The Slayer of Souls," by Robert W. Chambers; "Snake Bite and other stories," by Robert Hichens; "Sheila Intervenes," by Stephen McKenna; "Happily Married," by Corra Harris; "Affinities," by Mary Roberts Rinehart; "Reason and Belief, "by Sir Oliver Lodge; "Isn't That Just Like a Woman?" by Mary Roberts Rinehart; "Oh, Well! You K now How Men Are," by Irvin S. Cobb; "From Place to Place," by Irvin S. Cobb; "The Explorer," by W. Somerset Maughan; "The Plunderer," by Henry Oyen; "The Book of Boston," by Robert Shackleton; "The Light Heart," by Maurice Hewlett; "When I was a Boy in Persia," by Youel B. Mirza; "When I was a Boy in Scotland," by George MacPherson Hunter; "That Damn' Y," by Katherine Mayo; "White Shadows of the South Seas," by Frederick O'Brien; "The Ancient Allan," by Rider Haggard; "The Rescue," by Joseph Conrad; "Travel Papers," by Rudyard Kipling; "England to America," by Margaret Preston Montague; "The Killer," by Stewart Edward White; "Tatterdemalion," by John Galsworthy; "Fiddler's Luck," by Robert Haven Schauffler; "The Third Window," by Anne Douglass Sedgwick; "Tales of My Native Town," by Gabriele D'Annunzio; "Daughter of Anderson Crow," by George Bart McCutcheon; "Pax," by Lorenzo Marroquin; "The Clanking of Chains," by Brinsley MacNamara; "Women Triumphant (La Maja Desnuda)," by Blasco Ibañez.

## THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL,
PUBLISHED WEEKLY,

Subscription rates, domestic, \$1.00 per year; foreign, \$1.50; address
The Panama Canal Record, Balboa Heights. Canal Zone, or
The Panama Canal, Washington, D. C.
Entered as second-class matter February 6, 1918, at the Post Office
at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., July 21, 1920.

No. 49.

#### New Passenger Vessels to Pass Through Canal for Trans-Pacific Service.

The United States Shipping Board has allocated to the Pacific Mail Steamship Company 5 new passenger vessels now building in eastern shippards. They are to be operated in the present trans-Pacific service of the company, from San Francisco to Honolulu, Yokohama, Kobe, Shanghai, Manila, and Hongkong, and return. The ships are to be completed before the end of the year and will pass through the Canal to go into Pacific service.

The vessels are of 12,600 deadweight tons. The company states that they will be operated on a 16-knot schedule, and that the vessels will reach Honolulu from San Francisco in 5 days; Yokohama, 16 days;

Shanghai, 22 days; and Manila, 25 days.

#### Left-overs Expedite Turbine Repair Job.

The steamship Westward Ho arrived at Balboa shops on July 11 with disabled main turbine. Repairs are being effected by using material removed and left at the shops after a repair job on the turbine of the Cansumset. A new turbine set was shipped from the United States for the Cansumset and installed at Balboa. Some of the parts of the old set will answer for the repairs to the Westward Ho. Both are United States Shipping Board ships of nearly the same size and type, and with turbines of the same type from the same manufacturer.

#### Overhauling Submarines at Balboa Shops.

Six submarines of the "O" type, numbers O-11, O-12, O-13, O-14, O-15, and O-16, stationed at the Isthmus, went into the dry dock at Balboa on July 10 for general overhauling and repairs, cleaning, and painting. As soon as they are completed, 7 R-type submarines are to be dry-docked for similar work.

#### Repairs to Main Engine Crank Shaft on the "Silverado."

An interesting job in repairing a broken main crank shaft is being done at Balboa shops for the steamship *Silverado*.

The steamship Silverado was towed into the harbor of Balboa on the 1st of July

with a broken crank shaft.

Some time previous to this date, while at sea about 150 miles from Acapulco, the afterweb of the main engine crank shaft was completely broken in two. The engineer force made temporary repairs which enabled them to proceed to Acapulco under their own steam.

From Acapulco the ship was towed to Balboa, where the Mechanical Division is proceeding to make permanent repairs, which will consist of manufacturing and installing a complete new end on the broken crank shaft. The after crank web was cut away, the after high pressure journal re-turned, a complete web and crank pin and after journal and coupling were forged. The forward intermediate pressure web was reinforced to suit the re-turned shaft and shrunk and keyed on same.

In addition to the above, numerous other minor repairs are being accomplished, including aligning and adjusting valve gear operating shaft and valves, new piston rings and rebabbitting and fitting and adjusting main bearing, crank pin and cross-

head brasses.

This repair to the crank shaft is an unusual job and a very important one.

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight July 17, 1920.

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		dige	Point Bonita					Mary K. (c).			Mantaro	Ulysses	(a) Motor schooner.			Mantaro. Gottingen. Astral.		(f) Motor ship

2,000 8,345 4,998 7,409 6,562 4,839 6,500 6,130 4,432 7,605 5,033 4,605 1,605 5,033 4,605 7,605 5,033 9,13 7,605 5,013 9,13 7,605 5,143 7,605 7,305 7,305 7,305 7,305 7,305 131 7,505 131 7,505 131 7,505 131 7,505 131 7,505 131 7,505 131 7,505 131 7,505 131 7,505 131 7,505 131 7,505 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,305 7,			For-	New York via Habana Gartagena. New York. Port Linon. New Orleans and wayports Liverpool via Norfolk. Cartagena. New York.	•		Callao. Valparaiso. Mejillones.	ın 12 are postmeridian. 🎎
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56.3         21.0         Valparaiso.           57.0         19.0         Teocopila.           52.6         23.0         San Francisco.           52.6         23.0         San Francisco.           51.0         27.3         Kobe.           53.2         24.1         Singapore.           55.2         14.5         Saigon.           35.1         13.6         Guayaquil           6.1         23.0         Artofagasta.           55.8         17.0         Artofagasta.           55.1         18.0         San Francisco.           24.2         10.0         Grundribene.           57.7         25.0         Shanghai.           57.7         25.0         Shanghai.           62.7         23.0         San Francisco.           40.0         21.5         Tumaco.           40.0         21.6         Tumaco.		St. Da., All Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commission of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissions of Commissio	Vessel.	Pastores.  Caribbean Gen G. W. Goethals F. Ulua Metapan Ulua Heredia Patia Caribbal Ulua Caribbal U Caribbal U Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal Caribbal			Taeoma (m) Seiyo Maru. Achilles (j).	are expressed on the 24-
20 465.0 425.2 402.5 417.0 417.0 535.0 535.0 535.0 535.0 535.0 455.3 456.3 457.3 434.3 434.3 500.0 500.0	PORT OF CRISTOBAL.		Date.	5uly 11 5uly 11. July 13. July 14. July 14. July 15. July 16. July 16. July 16.	PORT OF BALBOA.		July 13 July 14 July 14	
Pacific Steam Navigation Co W. Wilhelmen United States Shinpung Board Kolness Government Kolnesse Government Capper Alexander & Co Capper Alexander & Co Capper Alexander & Co Corner Alexander & Co Corness Navigation Co Pacific Steam Navigation Co Standard Oil Co Gulf Refining Co United States Shipping Board. United States Shipping Board. Standard Oil Co Call Capper States Shipping Board. United States Shipping Board. Pacific Steam Navigation Co Facilic Steam Navigation Co	PORT OF C		From—	Port Liuon. New York via Haiana. New Orleans. High seas. High seas. New Orleans via wayports Cartnegan. New York via Haiti. New York via Norfolk.	PORT OF		Caleta Colosa. Hongkong. La Union.	*Other than ships passing through the Canal
14   16   15   2   08   British   14   18   12   15   2   28   British   14   18   12   15   2   25   American   14   18   12   15   2   25   American   15   12   25   25   American   15   15   17   25   25   25   25   25   25   25   2		*ARRIVALS.	Line.	United Fruit Co United Fruit Co United Fruit Co Peruvian Line British Government Nr Lloyd Intired Fruit Co Fruit Co Fruit Co Fruit Co Fruit Co Fruit Co Fruit Co Fruit Co Fruit Co Fruit Co Fruit Co Fruit Co Fruit Co Fruit Co Fruit Co Fruit Fruit Co Fruit Co Fruit Fruit Co Fruit Fruit Co Fruit Fruit Co Fruit Fruit Co Fruit Fruit Co Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Fruit Frui	ort. (1) Barge.	*ARRIVALS.	Reichsfüskers Toyo, Kisch Kaisha United States Navy	(n) Cruiscr. *Other than ship
13 16 56 14 7 48 11 11 11 11 11 11 11 11 11 11 11 11 11			Vessel.	Pastores Ulua Horeda Parteda Pairta St. Teath (j) Gotta Gotta Carlibean Carlibean Garlibean Garlibean Merquay (k) Darien (l) Partenia (a)	(k) U.S. Army transport.		Achilles (j) Seiyo Maru	(11) Third class cruiser. (
Ortega. Marioopa. Cockaponed. First and Jah. Yeifun Maru. Ayleebury. Burynaedus Aden Maru. Manavi. Lompon. Bradford. Wild Duck (6) Illavilsh. Royal Arrow. Royal Arrow. Royal Arrow. Royal Arrow. Minoch.	(i) Yacht.		Date.	July 11. July 12. July 12. July 13. July 13. July 14. July 15. July 16. July 17. July 17. July 17. July 17.	(j) Tug.		July 10 July 11	(m) Thir

#### Record Traffic During Fiscal Year Ending June 30, 1920.

During the fiscal year from July 1, 1919, to June 30, 1920, the volume of traffic passing through the Panama Canal exceeded that in any previous 12-month period. A total of 2,478 commercial ships made the transit, as compared with 2,025 in the fiscal year ending June 30, 1919, 2,130 in the fiscal year 1918, and 2,134 in the calendar

The number of commercial ships passing through the Canal in the fiscal year 1920 was about two-fifths above the average traffic for the period of Canal operation. It was approximately one-sixth greater than the number of ships in the previous record year (1918) and

one-fifth greater than the number in the fiscal year 1919.

Of the 2,478 commercial ships making the transit in the past fiscal year, 1,180 were bound from the Atlantic to the Pacific and 1,298 from

the Pacific to the Atlantic.

The aggregate net tonnage of the commercial ships passing through the Canal in the fiscal year 1920 was 8,545,653 tons, according to the Panama Canal rules of measurement. Of this, 4,168,873 tons went from the Atlantic to the Pacific and 4,376,780 tons from the Pacific to the Atlantic. In the fiscal year 1919 the aggregate was 6,131,575 net tons.

The cargo carried through the Canal by the commercial ships in the fiscal year 1920 totaled 9,374,499 tons of 2,240 pounds. Of these, 4,092,516 tons were bound from the Atlantic to the Pacific, and 5,281,983 tons from the Pacific to the Atlantic. The aggregate cargo in the preceding fiscal year, carried by commercial ships, was 6,877,649 tons.

In addition to the traffic of commercial ships, 266 vessels passed through the Canal in the service of the United States Government, without the payment of tolls. These were practically all Army and Navy vessels. They carried a total of 365,898 tons of cargo.

In revenues and in earnings in excess of expenses of operation and maintenance, new records were, likewise, established during the fiscal year. The summation of charges has not been completed in detail, but the figures indicate aggregate revenues approximating \$8,800,000 during the year. Expenses of operation and maintenance, including a proportion of overhead, in which are the expenses of civil government, hospitals, quarantine and sanitation, the Executive Department, the Accounting Department, the Washington Office, the operation and repairs of storehouses and quarters, lighting of streets, operation of water and sewer systems, and roads, etc., total about \$6,650,000. This indicates an excess of about \$2,150,000.

No profit has been made in a commercial sense, since there is no consideration here of interest charges on the investment or of the depre-

ciation of the plant.

The previous record for a year for revenues was made in the fiscal year 1918, in an amount of \$6,411,843,28. In that year the excess of revenues over expenses amounted to \$491,500.34, being greater than that in any fiscal year prior to the fiscal year 1920.

In the fiscal year 1919 revenues amounted to \$6,354,016.98, and the earnings above the cost of maintenance and operation were \$241,-

822.21.

To the beginning of the fiscal year 1920 the excess of expenses over revenues had made a deficit in the account amounting to \$4,618,990.75. This deficit will be decreased to about \$2,500,000 by the earnings in

the fiscal year ending June 30, 1920.

Tolls constituted about 96 per cent of the revenues. Other items are licenses and taxes, court fees and fines (about \$150,000), and profits on the business operations of the Canal adjuncts. The latter item amounts to about \$200,000 for the fiscal year 1920, and is on operations in which the expenditures were over \$14,000,000.

#### New Norwegian Line to West Coast of South America.

The American Consul at Bergen is author of the following note in Commerce Reports for June 18:

The North and South Atlantic Line of Bergen, which now operates a line of cargo and passenger steamers between Norway and New York, Rio de Janeiro, and Buenos Aires, returning via Hamburg, announces the opening of a line to the west coast of South America, via the Panama Canal, to Peru and Chile, returning via the Panama Canal and the Gulf ports. The new line will start with 2 modern steamers of 10,800 tons deadweight, the first of which will be completed in England early in July, and the second the latter part of August or the beginning of September. These vessels will take cargo from Scandinavia and the Continent for Peruvian and Chilian ports, and from there bring back cargo to the Gulf ports, Scandinavia, and the Continent. The line expects to secure considerable cargo from the Gulf ports for Scandinavia, compensating it for cargo brought from Peru and Chile to such ports.

## Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending July 17, 1920.

			D ()	Cargo—		
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.	
Pastores. Caribbean Ulua. Rosana Heredia. Gen. G. W. Goethals Metapan. San Juan Caribbean Cristobal Glenpool. *Mercury Gen. W. C. Gorgas Mantaro	United Fruit Co. Panama Railroad Cattle Industry. United Fruit Co. Anglo-American Steamship Co United Fruit Co. Panama Railroad Steamship Line. United Fruit Co. Pacific Mail Steamship Co Panama Railroad Cattle Industry. Panama Railroad Steamship Line. Standard Oil Co. of N. J. United States Army. Panama Railroad Steamship Line. Panama Railroad Steamship Line. Panama Railroad Steamship Line. Panama Railroad Steamship Line.	July 14 July 15 July 17 July 17 July 17	July 13  July 14  July 13  July 14  July 14  July 16	35 308 ² 31 210 †7,142 190 461	Tons.  13 53½ 26 21 8 8 8 1,472	

^{*} U. S. Army transport

†Oil.

## Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending July 17, 1920.

				Garg	0-
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Borgland	Chinese Government Pacific Mail Steamship Co Toyo Kisen Kaisha Fred Olsen  Johnson Line Pacific Mail Steamship Co Pacific Steam Navigation Co Panama Railroad Steamship Line	July 10 July 11 July 13 July 13 July 13 July 13 July 16	July 11 July 14	1,349 44 163 254 18	Tons. 3,674. 48 44

#### Sale of Crude Fuel and Diesel Oil.

The price of crude fuel oil sold by private companies in the Canal Zone has been increased to \$3.50 per barrel and the price from the tanks of the Canal will be \$3.50 per barrel, effective August 1, 1920.

Price of Diesel oil was advanced to \$4.50 per barrel, effective

July 16, 1920.

The Governor issued the following circular under date of July 16: The price of fuel oil at Canal terminals will be increased from \$2.50 per barrel to \$3.50 per barrel, effective August 1, 1920. Bunkers will be limited to sufficient oil to reach the next bunkering station from the Isthmus. This will apply to all ships whether they have contracts with local oil companies or not.

The necessity limiting the amount which can be sold to any one ship has arisen from the fact that, on account of the oil having been cheaper at the Canal than in many other ports, ships were bunkering here for long voyages, thus aggravating a shortage in fuel oil which has been developing for some time. Deliveries have been insufficient to maintain the supply with a desirable reserve stock, and 240,000 barrels are overdue now under The Panama Canal's oil contract.

#### Civil Service Retirement.

THE PANAMA CANAL, BALBOA HEIGHTS, C. Z., July 7, 1920.

HEADS OF DEPARTMENTS AND DIVISIONS:

There is published below, for your information and guidance, a synopsis of the general provisions of the Civil Service Retirement Act approved May 22, 1920, as applied to employees of The Panama Canal stationed on the Isthmus:

1. Retirement is provided only for employees in classified positions or in excepted positions to which they have been promoted or transferred from classified positions, including the following classes: Clerk, bookkeeper, stenographer, typewriter, surgeon, physician, trained nurse, and draftsman. Persons in any of these positions appointed without competitive examination and Panama Railroad employees are not included.

2. All employees to whom the act applies who have reached the age of 70 years must be separated from the service on August 20, 1920, unless recommended for continued employment. Employees reaching the age limit who have rendered service totaling 15 years or more, may be retired with annuities based on length of service and per centum of average basic salary for the previous 10 years of service, as follows:

Service.	Annuity.	Maximum.	Minimum.
(b) 27 years (c) 24 years (d) 21 years (e) 18 years.	60 per cent of salary. 54 per cent of salary. 48 per cent of selary. 42 per cent of salary. 36 per cent of salary. 30 per cent of salary.	648 576 504 432	\$360 324 288 252 216 180

The term "basic salary" excludes bonuses, allowances, overtime pay, etc.

3. For the purpose of computing the period of service, credit is given for the total period of employment with the United States from the date of original appointment, after deducting leaves of absence in excess of 6 months and periods of service upon which is based pensions, compensation under the War Risk Insurance Act, or Injury Compensation Act of September 7, 1916. No credit will be allowed for periods of employment after August 1, 1920, for which regular deductions have not been made or an equal amount with interest has not been deposited with the Treasurer of the United States.

4. An employee to whom the act applies may be retired after serving a total period of not less than 15 years, if, before reaching the age of retirement, he becomes totally disabled by reason of disease or injury not due to vicious habits, intemperance.

or willful misconduct.

5. Employees who are eligible for retirement because of age, must file, with the Commissioner of Pensions, before July 21, 1920, or 30 days before reaching the retirement age, or at any time thereafter, an application for annuity, supported by certificate stating applicant's age, salary, service, etc. If, however, an employee is to be continued in the service beyond the retirement age, application for retirement may be made at any time within the period of his continuance in the service, but compulsory retirement in any case is discretionary with the head of the Government

establishment in which employed and in the interests of the service. Extensions are for periods of 2 years and must be made by the head of the Government establishment in which employed, subject to approval and certification by the Civil Service Commission 30 days prior to employee reaching the age limit. Extensions may be similarly made for each succeeding 2 years until 1930, when no employee beyond the age limit will be retained in the service for more than 4 years.

6. Beginning on August 1, 1920, a monthly deduction of 2½ per cent will be made

of the basic salary of all employees coming within the provisions of the Act.

7. In case of disability, if annuity is discontinued before the annuitant has received a sum equal to the total amount of contributions with accrued interest, the difference

will be paid to the employee or to his estate.

8. If separated from the service before reaching the retirement age, the total amount of deductions with accrued interest at 4 per cent compounded, will be re-

turned to the employee, or to his estate, upon application.

9. If the annuitant dies before receiving annuities equal to the amount deducted from his salary, with interest at 4 per cent compounded, the excess of accumulated deductions will be paid to his estate.

10. Annuities will be paid monthly, and are not assignable, or subject to execution

or other legal process.

CHESTER HARDING, Governor.

#### Weather Conditions in June, 1920.

The rainfall for the month was above normal at Cape Mala and Taboga and generally over the Pacific slope and the extreme upper Chagres and Pequini Rivers. Over Gatun Lake and vicinity it was generally below normal with the exception of a small area near the lake's center. The rainfall was below normal at both Canal entrances, though the deficiency at Colon was very slight. Totals ranged from 4.42 inches at Balboa to 20.17 inches at Porto Bello. The greatest amount of precipitation recorded on any one day was 4.17 inches at l'edro Miguel on the 20th.

The estimated rainfall over the Gatun Lake watershed was 11.06 inches, compared with a 10-year mean of 11.32 inches; over the Chagres River Basin above Alhajuela it was 15.09 inches, compared with a 19-year mean of 13.10 inches.

The air temperature, surface temperature of the sea, and evaporation were generally above normal, while the atmospheric pressure and relative humidity, were below the average. The daytime cloudiness was slightly below normal on the Pacific Coast and slightly above normal on the Atlantic side, while the wind movement was below normal everywhere except at Gamboa and Colon.

A number of fogs, both light and dense, were observed at interior stations, all of

which lifted or were dissipated by 8.30 a.m.

No seismic tremors were recorded during the month.

#### GATUN LAKE HYDROLOGY.

Mean elevation of Gatun Lake was 82.21 feet; maximum, 82.94 feet on the 30th; minimum, 81.79 feet on the 1st. Evaporation from Gatun Lake surface was 4.169 inches; rainfall on Gatun Lake drainage basin was 11.06 inches; total yield of Gatun Lake watershed was 3.95 inches on the watershed. The total yield amounted to 36 per cent of the rainfall.

The following table gives a summary of weather conditions for the month:

	Temperature.							-	Precipitation.			Wind.				
Stations.	Pressure (reduction to mean of 2 hours).	Mean.	Maximum.	Date.	Minimum.	Date.	Mean relative	humidity.	Total inches.	Station average.	Days with 01 inch or more.	Total move- ment (miles).	Prevailing direction.	Maximum veloc ity in miles.	Direction.	Date.
Balboa Heights	29.826	vn s	0.0	June 19	72	T	6 84	5	4.83	7.44	10	3,515	M W	-	N.W.	T 02
Colon	29.828		91	June 17 June 20	73 71	June	3 84		3 29	7.44	26	5,296	W.	22 22	W. N.E.	June 23 June 23
Gatun		80.8		*June 9		June June	6		7 48 7.38	9 62		3,190 3,382	N.E. N.W.	28 24		June 9 June 16

^{*} And other dates.

#### Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

#### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Board of Civil Service Examiners, Balboa Heights (telephone 286).

Assistant director of educational work (male and female); \$2,800 to \$3,600 a year; (qualified as

editor and writer); August 10, 1920.

Druggist (male and female); \$60 to \$100 a month; August 4, 1920; form 1312; age, 21 years but not 50 years.

Metallurgical chemist (male and female); \$6.88 a day; August 10, 1920; form 1312; age, within

reasonable age limits.

Assistant metallurgical chemist (male and female); \$5.12 a day; form 1312; age, within reasonable age limits.* Statistician, Public Health Service (male and female); \$3,000 a year; August 10, 1920; form 2118;

age. 20 years and over.*

Curator (male and female); \$2,400 a year; August 3, 1920; form 2118; age, 20 years and over.*
Assistant curator (male and female); \$1,800 a year; August 3, 1920; form 2118; age, 20 years and over * Expert aide (telephone); (male and female); \$7.20 a day; August 17, 1920; form 1312; age, under

50 years.* Chief inspector of traffic (telephone); \$6 a day; August 17, 1920; form 1312; age, under 50

years.*

Telephone plant supervisor (male and female); \$6 a day; August 17, 1920; form 1312; age, under 50 years.*

*Nonassembled. Date given for nonassembled examinations is the last day for filing applications and they must be in the hands of the Commission at Washingtion prior to the hour of closing business on that day.

#### Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of-	Isthmian residence.	Employed by-	Date of death.	
Herman Edgar. William Marshall. *Anthony McKinney. Emanuel Toribio. Joseph Yearwood.	30054 33808 53152	Barbados Fortune Islands Panama	Panama Panama Camp Manawa	Coaling Station. Health Department. Dredging Division. Panama Railroad. Mechanical Division.	July 2, 1920. July 7, 1920. July 11, 1920.	

*Alias McKenning.

#### Official Circulars.

#### Payment of Bills.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Z., July 9, 1920. CIRCULAR No. 659-3 (superseding circular No.

659-2):
The prompt payment of bills rendered against employees, by The Panama Canal and Panama Railroad Company, for supplies or services, not covered by security deposit or for which cash payment is not made, is essential for the proper and sconomical handling of such accounts. With a

ment is not made; is essential for the proper and economical handling of such accounts. With a view of securing prompt payment of such bills, the following rules and regulations are prescribed:

1. All regular monthly bills rendered in advance, on the 1st of each month, such as garage, corral, and telephone bills, must be paid before the close of business on the 20th day of the month in which rendered or on the preceding business. in which rendered, or on the preceding business day when the 20th falls on a Sunday or holiday.

day when the 20th falls on a Sunday or holiday.

2. Other bills, such as commissary and laundry bills, must be paid on or before the 20th day of the month following that in which the service was rendered or supplies furnished, and miscellaneous bills such as quartermaster's bills, motor car repair shop bills, etc., if rendered on or before the 10th of the month must be paid on or before the 20th of that month. Bills rendered after the 10th of the month must be paid before the 20th of the succeeding month. of the succeeding month.

3. All bills remaining unpaid at the close of business on the dates above specified will be colected by pay roll deduction.

Collecting agents handling such bills must, at the close of business on the 20th of each month, forward all unpaid bills, with a list in duplicate, to the Auditor for deduction on current pay rolls.

5. Collecting agents shall not accept cash payment from employees for bills of the kinds above mentioned, after the close of business on the 20th

of each month.

6. To each bill collected by pay roll deduction a charge of 50 cents will be added to cover the cost of collection when the amount of such bill is less than \$20, and \$1 when the amount is \$20

or over.

7. Bills for medical and hospital treatment,
Hotel Aspinwall bills, and bills for rental of
silver quarters, will be handled by deduction on

silver quarters, will be handled by deduction on current rolls without charge, as heretofore.

8. Bills against other than employees must be paid on or before the dates fixed for employees. Failure to pay bills in accordance with the above regulations, will result in the cancellation of the credit privilege or the discontinuance of the serviced.

ice.

9. Nothing in this circular is to be construed to grant credit or "charge" accounts where such privilege has not been granted heretofore. All regulations regarding security deposits and cash payments remain in effect.

10. Penalties for nonpayment of garage, corral, and telephone bills as provided for in circulars.

and telephone bills as provided for in circulars 672-1 and 650-2 are hereby canceled.

11. The foregoing rules will apply to bills rendered on and after July 1, 1920,

CHESTER HARDING, Governor, The Panama Canal President, Panama Railroad Company

#### Supplement to Rules Governing the Assignment of Panama Canal Public Garages and Conditions of their Occupancy.

THE PANAMA CANAL, Supply Department, Balboa Heights, C. Z., July 16, 1920.

To all concerned—The following amendment is made to the circular issued August 2, 1919, covering rules for assignment of Panama Canal pub-

lic garages:
Paragraph 19, District quartermasters are authorized to make temporary assignments to employees with cars on hand to stalls permanently assigned to employees whose cars have not yet arrived on the Isthmus. Such temporary assignments will be made in order of applications on file in the offices of the district quartermasters, who will maintain a list of permanent and a list of temporary assignments, transferring rental charges from permanent to temporary and back to permanent occupant upon effecting changes. Temporary occupants of stalls must vacate at once upon arrival of car belonging to permanent assignee, or upon his forfeiture of stall—if other applicants have priority.

> R. K. MORRIS, Chief Quartermaster.

Approved: CHESTER HARDING. Governor.

#### Rainfall from June 1 to June 30, Inclusive.

	E .	1	
STATIONS.	Maximum one day.	Date.	Total.
Pacific section-	Ins.		Ins.
Balboa	1.72	16	4.42
Balboa Heights	1.39	20	4.83
Miraflores	3.41	20	9.87
Pedro Miguel	4 17	20	10 02
Rio Grande	2.75	20	11.78
Central section-	-,,,,		
*Culebra	2 02	21	12 03
*Camacho	2.25	16	11 83
Empire	2 29	16	11 01
Gamboa	2.28	16	7.48
*Juan Mina	.71	21	5 78
Alhajuela	1 86	26	11.16
*Vigia	3,39	26	10 23
Darien	3.22	16	12 70
*Trinidad	2.37	21	10 63
*Monte Lirio	1.56	3	7 86
Atlantic section-			
Gatun	1 29	3	7.38
*Brazos Brook	2.60	3	7 96
Colon	2.91	28	13 29
†Bocas del Toro	2 24	15	9.80
*Porto Bello	3 88	25	20.17

*Standard rain gauge—readings at 5 p. m. daily. Automatic rain gauge at unstarred stations—values, midnight to midnight.

tStandard rain gauge-readings at 8 a. m. daily.

#### Sale of Equipment on Hand at the Old Power and Refrigerating Plant, Commissary Division, Cristobal.

Sary Division, Cristobal.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights. C. Z., up to 10.30 a, m., August 25, 1920, and then opened for the purchase of various ice manufacturing machinery, electric generators, pumps, etc., on hand at the old power and refrigerating plant, Commissary Division, Cristobal. Form of proposal may be had upon application to the office of the Chief Quartermaster, Balboa Heights, or the General Manager, Commissary Division, Cristobal. The Panama Canal reserves the right to reject any or all bids. reserves the right to reject any or all bids.

#### June Rainfall for Three Years.

o mile i	******		4			
		INCHES	3.			
Stations	1915	1919	1920	Station average.	Years of record.	Rainy days, 1920
Pacific section-						
Balboa	4 57	7.75	4 42	7 20	24	15
Balboa Heights	5.20	8 93	4 83	7 41	23	16
Miraflores	5 70	4 60	9 87	8 41	12	17
Pedro Miguel.	6.55	3 99	10 02	9 07	13	19
Rio Grande	7 33	6.23	11.78	9 14	16	21
Central section-			1			
Culebra	8.07	5 73	12 08	8.84	29	20
Camacho	10.92	6 77	11 83	9 70	14	17
Empire	9.31	5.57	11 01	8 65	17	23
Gamboa	10 12	6 02	7 48	9 62	39	20 22
Juan Mina	13.56	5.50	5 78	10 03	10	22
Alhajuela		6 87	11 16	12 18	21	25 27
Vigia	15.58	7 07	10 23	12 69	12	27
Frijoles	8.06	5.85	10 20	9 75	9	
Trinidad	5.39	12.30	10.63	10.35	13	24
Monte Lirio	9.43	8 16	7 86	11.96	13	27
Atlantic section-						
Gatun	8.29	12 54	7.38	12 29	16	18
Brazos Brook	10 11	11 70	7 96	13.94	14	21
Colon	8.56	12.08	13 29	13.35	50	26
Porto Bello		10.04	20.17	15.78	9	28
Bocas del Toro	6.81	11 65	9 80	8 01	12	16

#### Sale of Wagons and Wagonettes.

Sale of wagons and wagonettes.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., until 10,30 a, m., August 10, 1920, and then opened for the purchsae of 6 wagons and 3 wagonettes on hand at Balboa storehouse. Form of proposal may be had upon application to the office of the Chief Quartermaster or the General Storekeeper, Ealboa. The Panama Canal reserves the right to reject any or all bids. or all bids.

#### Additions to Commissary Stock.

Dry Goods Section.	
Aprons, bungalow, ea	\$2.15
Aprons, bungalow, ea	2.75
Aprons, bungalow, ea	1.75
Aprons, bungalow, ea	3.35
Aprons, bungalow, ea	3.10
Aprons, bungalow, ea	2.60
Buttons, ivory, khaki color, line 24, doz	.13
Buttons, pearl, coat, line 24, doz	.11
Cambric, linen, bleached, 36", yd Cambric, linen, bleached, 36", yd Cambric, linen, bleached, 36", yd	1.45
Cambric, linen, bleached, 36", yd	1.60
Cambric, linen, bleached, 36", yd	1.75
Cloth lingerie chino cotton 11" vd	.34
Curtain, drapery, 36", yd	. 62
Curtain, scrim, 36", yd	.44
Curtain, drapery and scrim, 36", yd	. 71
Curtain, scrim, yd	. 41
Curtain, scrim, yd	. 44
Curtain, scrim, yd	.33
Drawers, knee, pr Dress goods:	00
Voile fenor 35/6" and	. 61
Voile, fancy, 35/6", yd	.71
Floss, dental, waxed, Lister's, bot	.16
Ilats, straw, men's, ea	2.50
Helmets, police, ea	1.80
Helmets, police, ca	2.50
Knickerbockers, boys', corduroy, pr	1.65
Lotion, After-Shave, P. C. (3 cents allowed	
for return of empty bottle) 12-oz. bot	. 25
Overalls, boys', blue denim, pr	1.10
Shirts, negligee, coat style, soft cuffs, ea .	2.05
Suiting:	
Linen, shrunk, 29", yd	.86
Loom linen, Dowlas, 39", yd	1,00
Promenade, women's, assorted colors,	
34/5", yd	. 66

Suiting - Continued. Serge, blue, 56", yd Serge, black, 56", yd		Pickles, mixed, Morton's, pt. bo! Walnuts, pickled, C. & B., pt. bot Hardware Section.	\$0.40 .54
Suits, men's union, cotton and wool. Wright's, suit	. 75	Automobile and motorcycle accessories: Rims, steel, 28", ea Baskets, waste, wicker, small, ea	. 95
Towels, linen, huck, 18" x 34", ea  Grocery Section.		Pots, tea, aluminum, ea Pots, tea, Doulton, C-4772, ea Stoves and accessories:	3.65 2.00
Chocolates, Fry's Caracas, 3-oz. cake Chow Chow, C. & B., pt. bot Chow Chow, Morton's, pt. bot	. 14	Mantels for 3-burner Florence stoves, ea. Stoves, Florence, 3-burner, ea	6,85 20.65
Cigarettes, Melachrino No. 9, 10s. box Cream of Tartar, 2-oz. ctn	.18 .10 .46	Trays, mahogany, round, nickel plated handles, 14", ea	5.10 6.65
Lime juice cordial, Rose's, liter bot Mushrooms (Cepes au Naturel), ½-kilo tin.	. 66 . 39	Ice Cream Section.  Milk sherbet, lemon, gal	.95

#### COMMISSARY NOTES.

#### After-Shave Lotion.

The Commissary Division recently began the manufacture of a product called 'After-Shave Lotion," an antiseptic preparation which is finding ready sales in the line stores. It is sold in 12-ounce bottles with sprinkler tops at all commissaries for 25 cents, 3 cents refund being allowed for the return of bottle.

The strength of this lotion is about the same as any first-class bay rum and as this may be a little too strong for some users, it is suggested that in such cases, the end of a towel be dipped in water, some of the lotion added to it and in that way applied

to the face.

#### Books.

Books received:

Books received:

"Tales of a Cruel Country," by Gerard Cumberland; "A Lithuanian Village," by Leon Kobin; "The Moon and Sixpence," by W. Somerset Maugham; "The Young Visiters," by Daisy Ashford; "Blood and Sand," "Mare Nostrum," by Blasco Ibañez; "Sherry," by George Barr McCutcheon; "River's End," by James Oliver Curwood; "The Passionate Pilgrim," by Samuel Merwin; "Eye of Zeitoon," by Talbot Mundy; "This Side of Paradise," by F. Scott Fitzgerald; "The Chorus Girl," by Anton Chekov; "Black Sheep. Black Sheep." by Meredith Nicholson; "Noa, Noa," by Paul Gauguin; "The Arrow of Gold," by Joseph Courad; "Ramsey Milholland," by Booth Tarkington; "Mc Arroin Ballads," by T. A. Daly; "Economic Consequences of the Peace," by John Maynard Keynes; "The Shadow," by Mary White Ovington; "Easy Lessons in Einstein." by Edward Slosson; "Liberty and the News," by Walter Lippman; "Bolshevism at Work," by William T. Good; "The Non-partisan League," by Herbert Gaston; "Modern American Poetry," by Louis Untermeyer; "The Re-Creation of Brian Kent," by Harold Bell Wright; "Tarzan the Untamed," by Edgar Rice Burroughs; "Roosevelt's Letters to his Children," edited by Joseph Bucklin Bishop; "Tutt and Mr. Tutt." by Arthur Train; "Mexico: To-day and To-morrow," by E. D. Trowbridge; "Misers' Money," by Eden Phillpott; "Miss Lulu Bett." by Zona Gale; "The Sailor Girl," by Frederick F. Moore; "Marching Sands," by Harold Lamb; Spanish dictionary: "Wanted, a Husband," by Samuel Hopkins Adams; "Cape Coddities," by Dennis and Marion Chatham; "The Education of Henry Adams," by Henry Adams; "Polyooly Dances," by Edgar Jepson; "Raspberry Jam," by Carolyn Wells; "The Portygee," by Joseph C. Lincoln; "The Golden Scorpion," by Sax Rohmer.

#### Beef.

For the further information of those who are interested in using the forequarter cuts sold at low prices in the retail commissaries, there are given below two recipes

for dishes prepared from the chuck:

Pot roast with vegetables—Requires 3 or 4 pounds chuck roast, 1 cup sliced carrots, 1 cup sliced onions, 1 cup celery cut in bits, 1 cup sliced turnips, 3 tablespoons fat (preferably from salt pork). If the meat is not in a solid piece, skewer or tie it into shape, wipe it with damp cheesecloth, and roll in flour. Boil vegetables in salted water to barely cover, until soft. Rub through a coarse strainer. Heat fat in a frying pan or iron kettle with cover. Put in the meat and brown on all sides. If the frying pan is used, transfer the meat, after it is brown, to a kettle, unless the pan is deep enough to hold the beef. Pour the vegetables and their liquid over the meat, together with any preferred seasoning. Cover tighly and let simmer slowly for 4 or 5 hours, turning twice. Thicken the gravy a little, and pour over the meat.

Beefsteak pie—Requires chuck steak, cut in narrow strips, bit of garlic, ½ bay leaf, 6 pepper corns, sprig of parsley. 1 onion stuffed with 2 cloves, 1 cup sliced carrots, 1 cup celery cut in strips, 4 halved potatoes. The garlic, bay leaf, pepper corns, parsley, and onions should be tied in a square of cloth. Place steak in a kettle with boiling water to cover, and let it simmer for half an hour. Add seasoning in bag together with salt to the meat, and thicken the stock. Place the kettle on an asbestos mat to keep sauce from sticking. Some dried mushrooms soaked and drained improve the flavor. Simmer while making the pastry. Then remove the bag of seasoning. Put all in a baking dish with a rolled crust over the top and sides. Brush with milk and

bake 40 minutes, covering it with heavy paper as soon as it is brown.

## THE PANAMA CANAL RECORD



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Volume XIII.

Balboa Heights, C. Z., July 28, 1920.

No. 50.

#### Rationing the Fuel Supply.

In connection with the fuel shortage at the terminals of the Canal, which has necessitated limiting the quantity of bunkers for each ship to that necessary for reaching the next bunkering station, the Marine Superintendent has issued the following circulars to marine interests:

Balboa Heights, C. Z., July 15, 1920.

All steamship agents-Your attention is invited to the very serious situation with regard to fuel. The requirements of the Canal per month for coal for bunkering ships amount to about 50,000 tons. At the present time the average supply is not above 30,000 tons. One month ago The Panama Canal supply of coal was 46,000 tons. At the present time it is approximately 26,000 tons. It will be seen from these figures that unless very drastic action is taken there will be no coal for bunkers on the 1sthmus except at spasmodic intervals in a very short time. The situation with regard to oil is equally serious.

In view of the above the following instructions are being issued to the Port Cap-

tains with regard to issuing of fuel.

All vessels leaving Cristobal for European ports will be fueled to Norfolk. This for the time being will include vessels bound for Mediterranean ports, unless other bunkering port short of Gibraltar can be found.

All vessels leaving Cristobal for Cuban or other West Indian ports will be bunkered

only to the nearest bunkering port.
All vessels leaving Cristobal for Cape Town will be bunkered to Barbados or Trinidad. All vessels leaving Balboa for the west coast of South America will be bunkered

to Coronel.*

All vessels leaving Balboa for Honolulu, or Honolulu and the Far East, will be bunkered to San Diego.

All vessels leaving Balboa for New Zealand and Australia will be bunkered to New

Zealand, the nearest bunkering port.

The Marine Superintendent is making every effort to obtain information as to ports in the West Indies where bunkers may be obtained. This information will be sent you on its arrival, but I would suggest that you endeavor to obtain information and make bunkering arrangements to assist in tiding over the present emergency.

All vessels sailing for Canal ports should be bunkered full on leaving home ports, The Port Captains are instructed to investigate the supply on hand on arrival of any vessel to determine whether she was fully bunkered on leaving the last bunkering port, and a tendency not to bunker full as requested at home ports will be considered and such action taken as will compel compliance with this request.

The Marine Superintendent regrets exceedingly the necessity for the foregoing stringent regulations, and hopes that the situation will soon clear up. In the meantime he requests the hearty cooperation of all concerned in order to keep traffic mov-

ing.

*Note change per circular of July 21.

BALBOA HEIGHTS, C. Z., July 19, 1920.

All steamship agents-Supplementing my circular letter of the 15th instant regard's ing the present serious fuel situation, the following recent dispatches are quoted for your information:

"St. Thomas, July 15, 1920.

Thirty-five hundred tons coal available Friday sixteen other arrivals hoped for but unable to advise definitely. Governor."

Pancanal:

One thousand tons only at seven pounds f o b untrimmed subject prior sale.

"Kingston, Jamaica, July 15, 1920.

Am. Consul.** A "Salina Cruz, Mexico, July 15, 1920.

Pancanal:

Because strike refinery bunker oil not now available.

"Salina Cruz, July 16, 1920.

Burlingham."

Refinery strike ended future bunker oil supplies contingent upon number tank cars available to transport oil here and amount of demand from vessels. No stock on hand to-day.

Burlingham." San Juan, P. R., July 16, 1920.

Bunker coal on hand at present about six thousand tons.

Benedicto, Actg. Governor." Balboa Heights, July 16, 1920.

Pancanal, Washington:
Price of fuel oil at Canal terminals will be increased to three dollars fifty cents per barrel effective
August 1, 1920. Bunkers will be limited to sufficient oil to reach next bunkering station. This will apply to all ships whether they have contracts with local oil companies or not. Notify shipping and oil interests and others concerned immediately by publication and otherwise.

"Balboa Heights, C. Z., July 16, 1920.

Pancanal Washington:
Please arrange with State Department to have Consuls at following ports inform Pancanal direct
by cable as to supplies of oil and coal for bunkering ships at their ports and to keep Pancanal informed
by cable of changes in fuel situation when such occur Kingston Jamaica, Habana, St. Thomas, San Juan,
Barbados, Trinidad, Azores, Callao, Iquique, Valparaiso information necessary to routing of ships during fuel shortage.

Harding."

"Balboa Heights, C. Z., July 16, 1920.

Pracirem, New York:

What are prospects of amount of coal deliveries coming month? Have only two weeks supply on hand outside of Navy coal.

Harding." "Port of Spain, Trinidad, July 18, 1920.

Pancanal:

Four thousand tons. (coal)

American Consul, Baker."

"Washington, D. C., July 17, 1920.

Pancanal:

U. S. Shipping Board advises at present time no oil at St. Thomas and unable replenish supply until latter part July. Supply at Honolulu adequate for requirements of U. S. Shipping Board vessels. Practically no oil available in the open market on west coast South America.

"Balboa Heights, C. Z., July 19, 1920.

U. S. Consul, Salina Cruz, Mexico:

Will route approximately fifteen ships per month via Salina Cruz if oil available there. What are the prospects for early supply?

Pancanal."

Balboa Heights, C. Z., July 21, 1920.

Memorandum for Port Captains—The following changes are made in Marine Super-intendent's circular letter of July 15, with regard to the issuing of fuel:
1. In view of the information recently received from the Shipping Board that there

is now no supply of oil for bunkers on the west coast of South America, until further orders steamers of companies having established itineraries from the Canal Zone to these ports may be bunkered for the round trip in all cases where the records of the vessel show that every opportunity for bunkering outside Canal ports has been taken

advantage of.

2. It is noted that there are certain established steamship lines carrying mail and passengers to ports on the west coast of South America whose schedules would be seriously interfered with if circular letter of July 15, were rigorously carried out. It is desired that such vessels be bunkered for the round trip in all cases where it can be shown that the vessel has taken every opportunity to bunker prior to arrival on the Canal.

3. It is also noted that vessels running to the nitrate ports on the west coast of South America would be required to make an additional run of some 2,000 miles to obtain coal at Coronel. In view of the slightly improved condition of the coal supply on the Isthmus by the past week, until further orders such vessels as above mentioned may be fueled for the round trip in all cases where it is shown that they have taken every opportunity to bunker prior to arrival on the Isthmus.

In all other cases where exceptional hardship would be entailed in not bunkering for the round trip, the matter will be referred to the Marine Superintendent for

decision.

The fuel shortage at the Canal is part and consequence of the world shortage. In coal the specific difficulty has been a scarcity of coal at the seaboard of the United States. There has been a severe shortage in the United States especially on the Great Lakes and throughout the northwest, and difficulties of rail transportation have added their effect to that of insufficient production from the mines. In oil, practically all the supply has been coming from Mexico, where production has been greatly decreased by disorders, repressive legislation, and the physical finish of a number of strong wells in the Tampico field, which began to run salt water. The demand for oil has increased greatly in the last 18 months, both for shipping and in industrial plants.

The use of fuel oil by The Panama Canal organization on the Isthmus amounts to a total of about 30,000 barrels a month among the various departments and divisions. The contract for the fiscal year ending July 1, was for 1,000,000 barrels, which left a considerable margin for sale to steamship lines. Until the shortage began to be felt the sales from the tanks of The Panama Canal were not enough to use the marginal supply, and for about 9 months the total consumption through the tanks of The Panama Canal was about 400,000 barrels. When the stock of the private companies with tanks at the Canal began to run low an increased draft was placed on the tanks of The Panama Canal, and since April of this year 600,000 barrels have been ordered, taking all the rest available under the original contract. All of this has been delivered except 2 shipments which are due in August. Under the contract the Canal has the privilege of calling for an additional 500,000 barrels, under a renewal contract, and this also has been ordered.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending July 24, 1920.

Name of vessel.	Line or charterer.	Arrived.	Departed.	Care	go <del></del>
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Ulua Caribbean Rosana Parismina Toloa	West India Oil Co. United Fruit Co. Panama Railroad Cattle Industry. Anglo-American Steamship Co United Fruit Co. United Fruit Co. United Fruit Co. Royal Dutch West India Mail Co. La Veloce Steamship Line. Panama Railroad Steamship Line. United Fruit Co United States Army. Peruvian Line. Spanish Steamship Line. United States Army. Royal Mail Steam Packet Co Pacific Mail Steamship Co. Pacific Mail Steamship Co. Pacific Steam Navigation Co. United Fruit Co. Panama Railroad Cattle Industry. Panama Railroad Cattle Industry. Panama Railroad Steamship Line. French Steamship Line. Pacific Mail Steamship Co. Pacific Steam Navigation Co. Panama Railroad Steamship Line. Pacific Steam Navigation Co. Panama Railroad Steamship Line. Datch Steamship Line. Pacific Steamship Line. Dutch Steamship Line. Dutch Steamship Line.	July 21.  July 21.  July 22.  July 22.  July 22.  July 22.  July 23.  July 23.  July 23.	July 21	Tons. *7,000 2  \$21 87 70 13 13 986 14  14  12,078 7	Tons.  187 50 36 5 1 18 52 603 10 40 6

* Oil.

t Coal.

Cable Addresses of The Panama Canal.

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;" in the United States, "Pancanal, Washington."

## MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight July 24, 1920.

THROUGH THE CANAL-ATLANTIC TO PACIFIC.

Canal	Net	3,600 185 185 185 185 185 185 185 185 185 185	2,316	4,760 4,921 2,744 5,066 5,545 5,081 4,971 4,923
Panama Canal tonnage	Gross	6,473 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673 2,55,673	3,240 2,310 4,210 2,744 5,789 4,082	6,525 6,736 6,736 7,444 7,444 1,041 1,041 6,690 6,690 6,690
	Suo.I.		4,555	3,000 6,525 7,265 6,736 6,950 1,352 4,210 6,646 6,649 3,184 11,041 7,059 8,068 6,580
	Cargo	, etc	Fuel oil General General Ballast	Nitrates Wheat. Douglas fir ties. General General Ballast Ballast () Ballast
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Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending July 24, 1920.

					Carg	0-
Name	of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Guatema Easterlin San Juan De Sota. Palena. Laura C. Acajutla.		Pacific Mail Steamship Co Standard Oil Co Cia. Sud-Americana de Vapores	July 20	July 22 July 22 July 22 July 22 July 24	7,500 15 43 93	Tons. 1,500 39

#### "Favorite" on Third Voyage to Serrana Bank.

The salvage steamship Favorite cleared from Cristobal in the evening of July 27 on her third trip to Serrana Bank to assist the stranded Koyo Maru. On the second voyage, from which she returned to Cristobal on July 23, the Favorite brought 260 tons of cargo and on the present trip her master expects, with the help of a barge which she took in tow, to lighten the Koyo Maru sufficiently to allow her to be pulled off the reef.

#### Work on Vessels Lying at Terminal Docks.

THE PANAMA CANAL, MARINE DIVISION, BALBOA HEIGHTS, C. Z., July 20, 1920.

Local steamship agents—Instructions were recently issued that no outside contractor shall be permitted to do work on vessels lying at docks in either terminal of the Panama Canal.

The Governor has announced that the practice which it is intended to prevent Is the organization of forces by outside concerns for the purpose of effecting repairs, in competition with the Mechanical Division, to ships at our docks; and that the instructions referred to do not apply to small repair jobs performed by a steamship company's own forces to its vessels lying in our terminals.

E. P. Jessop, Marine Superintendent.

#### Fees for Passports and Visas.

For each passport issued on and after the 1st day of July, 1920, State Department officials are required to collect total fees of \$10, instead of \$2, as formerly. The \$10 charge includes the fee of \$1 for executing an application for passport and \$9 for the issuance of the passport. The \$1 fee for executing application is charged in all cases, but emergency passports will be issued to persons of the following-exempted classes without the payment of the passport fee of \$9.

1. Officers or employees of the United States proceeding abroad in the discharge of their official duties, and members of their immediate families;

2. Seamen;

3. Widows, children, parents, brothers, and sisters of American soldiers, sailors, or marines buried abroad whose journey is undertaken for the purpose of visiting the graves of the soldiers, sailors, or marines. (In this case an affidavit as to this purpose must be attached to the application.)

Effective the same date, a fee of \$1 is charged for executing each application of an alien for visé of his passport and \$9 for such visé, excepting in cases of exempted persons of the following classes:

1. Any officer of a foreign Government or member of his immediate family;
2. Any officer of the armed forces or of any State, district, or municipality of a foreign government;

3. Any soldier coming within the provisions of public resolution of October 19.

The validity of a passport or visé is limited to 2 years, unless said passport be issued by an Embassy or a Legation, in which instance the validity is limited to 6 months and is not subject to renewal, unless the Secretary of State shall, by regulation, limit a passport or visé to a shorter period. The prior ruling was that a passport was limited to a validity of 6 months.

In this connection, no passport or other certificate is required of American citizens bound for United States territory, except in the case of enemy aliens who have declared residence in the United States.

#### New Lunch Counter Night Service at Ancon Restaurant.

A lunch counter is being operated in Ancon restaurant from 8 p. m. until midnight for the benefit of those who are prevented from eating during the regular meal hours. One gold employee in attendance, serves the orders, punches the tickets, and collects the coupons or money. This labor-saving lunch system has been adopted by many lunch-room concerns all over the United States. The regular cafeteria prices are charged.

#### August Weather Probabilities.

The following weather conditions may be expected to prevail at the Canal entrances during the month of August, 1920. Predictions are based on the records at Colon and Balboa Heights for the past 12 and 14 years, respectively:

Winds-The winds over the Atlantic Coast will be light and variable, with an average velocity of about 8 miles an hour. The maximum velocity during local rain or thunder squalls is not likely to exceed 35 miles an hour.

Northwest and north winds will prevail at the Pacific entrance and over the interior, with an average velocity of about 7 miles an hour. Maximum winds of 35 miles an hour may occur during the passage of rain or thunder squalls, but wind squalls of this character do not occur often, and the high winds seldom last longer than a few minutes.

Rain—Frequent heavy showers may be expected during the month on both coasts and over the interior. The average August rainfall at the Atlantic entrance is 14.83

inches, and the average at the Pacific entrance is 7.72 inches.

Fogs—Few if any fogs are likely to occur during the month at either Canal entrance, but night and early morning fogs will be numerous over the interior. However, all

fogs that occur are likely to lift or be dissipated by 8.30 a. m.

Temper ture—The average air temperature in the shade will be approximately 80° F. on both coasts. The average daily range in temperature will be about 15° F. on the Pacific side and 8° F. on the Atlantic side. Temperatures higher than 94° or lower than 70° are not likely to occur during the month.

Barometric pressure—Atmospheric pressure over the Isthmus is relatively constant and uniform, except for well-marked diurnal fluctuations. The average sea level pressure during August should be about 29.85 inches on both coasts. The highest pressure is not likely to be more than 29.95 inches, nor the minimum to be lower than

Relative humidity—The relative humidity on the Isthmus is high throughout the

rainy season. The average humidity for the month of August is about 85 per cent. Storms—No severe general storms are likely to occur at either Canal entrance dur-Ing the month of August. Local wind and rain squalls occur frequently, but they are of too short duration to cause a heavy sea.

The West Indian hurricane season extends from June to November. These storms pass across the Caribbean Sea and West Indian waters, but they never extend as far south as the Atlantic entrance of the Canal.

Generally cloudy weather will continue over both coasts, and smooth to moderate

seas may be expected at the Pacific entrance.

Tides—Tidal fluctuations at the Atlantic entrance of the Canal are too small to affect navigation, as the average tidal range is approximately 1 foot and the maxi-

mum range only about 2 feet. Panama tide predictions are given below. These are taken from 1920 Tide Tables, published by the Department of Commerce, Washington, D. C.

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Tu	10		11:55 14.1	6:21 2.9		S	21	2:30		3:05 3.6							
W	11	0:37	6:52 3.2	1:04 14.8	7:30		22	3:23 4.3	9:29 13.0	4:05 4.4	10:08						

The tides are placed in the order of their occurrence; the times of high and low tides are shown on the upper lines. The figures in boldfaced type are hours and elevations between noon and midnight; ante meridian figures are given in the ordinary lightfaced type. The time is Cosmopolitan Standard for the meridian 75° W.

The elevations of the water are shown on the second line for each day; a comparison of consecutive heights will indicate whether it is high or low water. Heights are reckoned from mean low water springs, which is 8.3 below mean sea level and is the datum of soundings on the Coast and Geodetic Survey charts for this region. The depth of water may accordingly be estimated by adding the tabular height of the tide to the soundings, unless a minus (-) sign is before the height, in which case it is to be subtracted. The annual inequality or variation in the mean sea level is included in the predictions. predictions.

#### District Dental Notice.

Dr. John C. Fowler, having been appointed a dentist, will be assistant to the district dentist in Ancon.

#### Census of the Canal Zone.

The report of the census of the civil population of the Canal Zone taken by the Police and Fire Division between June 10 and 30, 1920, follows.

The total shows a decrease of 109 as compared with the census of 1919. The increase or decrease by districts is as follows:

	1919	1920	Increase.	Decrease.
Balboa District. Cristobal District. Prisoners.	7,586	13,504 7,995 151	409 34	552
Totals	21,759	21,650		109

The usual census of the population of the Gatun Lake area (outside the Canal Zone) was also taken. The total persons in this section, 3,217, shows an increase of 238 over the figures for 1919.

The population ascertained each year by the Police and Fire Division is used as the basis for vital statistics of the Canal Zone.

#### Police Census of the Canal Zone.

House to house canvass of the civil population of the Canal Zone taken between June 10 and 30, 1920, by the Police and Fire Division.

#### BALBOA DISTRICT.

	Amer	icans.	All ot	hers.	A	merican	18.	A	ll other	8.	
Location.	Men.	Em- ploy- ees.	Men.	Em- ploy- ees.	Wom- en.	Em- ploy- ecs.	Chil- dren.	Wom- en.	Em- ploy- ees.	Chil- dren.	Total.
ANCON	508	471	138	120	365	126	266	61	9	30	1,368
Aneon Hospital: Staff	52	52	109	109	81	81		33	33		275
Patients (civilians buly)	44	18	203	164	16	5	16	45		58	382
Tivoli Hotel	19	7	32	28	14	4	2	5	2	3	75
Quarry Heights	186 19	186 19	3		180 40	19	233 28	53 26			652 116
BALBOA	1,145	1,136	72	65	738	61	938	51		36	2,980
Petrolia La Boca	3 62	$\frac{1}{62}$	712	712	3 57	2	3 83	397		781	2.092
La Boca	9 2	2 2	27 1	15	10 50		60	1 43	1		49 156
(Hdqrs.)	1	1			3		4	1			9
Radio Station Floating equipment. Palo Seco:	2	2	3	3	6		1	4			15 5
Staff	2	2	22 51	22	2			22			26 73
Venado plantation Rural (west side of Canal between Pa-			1	1							i
cific shore and Ar- raijan trail)			4	2				1		3	8
Farfan pastures corozal:				1							1
Camp Corozal Arsenal	10 5	10 5	5 4		28 5		24	28 2			95 18
Staff	10	10	63 207	63	6	6		15 147	15		94 360
MIRAFLORES	7	7	1	1				3		1	12
Miraflores pastures Red Tank	272 1 3	267 1 3	14 13 532	14 13 530	205	10	218	28 7 325		617	737 28 1,478
Rural (east side of Canal between the Cardenas River and Chagres River)											
Floating equipment	3 5	3 5	417	411	2		2	235		496	1,155 29
Floating equipment SUMMIT. Las Cascadas planta-	6	6	82	24 77	2		3	15		24	132
La Pita			9 27					2		. 1	12 27
gres River)	4	4	97	97	2		9	45 4		63	220
Officers	7	7	8	8							15
Juan Mina plantation.	4	1 4	9 6	9	3	1	· · · · · i	2		2	14 14
Camp Gaillard. Golden Green. Rio Grande.	3	3	3 70 20	5	25		22	15 61		103	73 234 20
EMPIRE	4	4	6		3		2	3		4	22
Camp EmpireLirio Camp.	3	3	55	42	6		5	58		115	14 228
Cerro Camp	1	1	12 21	8				8		24	12 54
Camacho	1	1	21	17				8		24	09
Arraijan trail and Gatun Lake)											100
LAS CASCADAS	1	*0.20*	24	16		047		22		58	105
Total employees Total persons	2,410	*2,305	3,115	2,577	1,853	315	1,924	1,770	60	2,432	5,257 13,504

^{*}Includes 63 American civilian employees of the United States Army and Navy.

#### CRISTOBAL DISTRICT.

				CDIII	Dioliti	.01.					
-	Ameri	icans.	Allot	hers.	Į Į	America	ns.	. A	All other	8	
Location.	Meu.	Em- ploy- ees.	Men.	Em- ploy- ees.	Wom- en.	Em- ploy- ees.	Chil- dren.	Wom- en.	Em- ploy- ees.	Chilidren.	Total.
GAMBOA (north of Chag- res River)	9 2 1	9 2 1	16	16	7	1	7	2		2	23 2 2 22
DARIEN RADIO STATION. CAIMITO PASTURES. FRIJOLES, FRIJOLES, FRIJOLES Plantation. BOHDO PASTURES. MONTE LIRIO Monte Lirio pastures. GATUN. Labor camps. New Gatun. Camp Gatun. Bracho-Mindi plantation. Rural (east side Camal between N. shore of	1 1 3 206	1 1 3 202 7	19 20 112 40 2 184 433 94	9 19 20 112 40 2 2 	1 1 174	10	257	5 10 20 1 37 123 246 49	1	12 22 1 3 266 451 5	15 11 42 20 113 88 4 677 573 1,130 208
Gatun Lake and Caribbean Sea). MINIO DAIRY. MOUNT HOPE. Mt Hope pastures (including hog farm and Majagula plantation). CRISTOBAL. Folks River Camp. Camp Bierd. Sweetwater plantation Fortification Camp. Fort Randolph. Fort Randolph.	2 16 5 811 50 10		201 27 416 1,529 2 5	201 22 411 1,529 2 5	2 2220 8 4	1 42	3 12 4 214 8 11	14	11 1	15 2 664 67	64 48 241 1,281 1,503 1,650 2 5 63 125
Air Station, Coco Solo. Submarine Base  Total employees Total persons.		*1.128	12 1  3,196	3,056	37 3 31 553	54	27 3 17 	22 2 18 966	14	1,530	4,252 7,995

#### PRISONERS.

	Ameri	icans.	Allo	thers.	[ A	merica	ns.	A	II other	S.	
Location.	Men.	Em- ploy- ees.	Men.	Em- ploy- ees.	Wom- en.	Em- ploy- ees.	Chil- dren.	Wom- en.	Em- ploy- ces.	Chil- dren.	Total.
Balboa	4	1	20	5							24
Pedro Miguel			23	14							23
Gamboa Penitentiary Gatun.	4		44								48
Cristobal	15		28						;		43
Total employees Total persons	24	1	127	19							20 151

#### RECAPITULATION.

	Ame	ricans.	All others.		Americans.			A			
Location.	Men.	Em- ploy- ees.	Men.	Em- ploy- ees.	Wom- en.	Em- ploy- ees.	Chil- dren.	Wom- en.	Em- ploy- ees.	Chil- dren.	Total.
Balboa District	2,410	2,305	3,115	2,577	1,853	315	1,924	1,770	60	2,432	5,237 13,504
Cristobal District		1,128		3,056		54			14		4,252
Prisoners	1,138	1	3,196	19	553		612	966		1,530	7,995 20 151
Total employees Total persons.	3,572	*3,434	6,438	5,652	2,406	369	2,536	2,736	74	3,962	*9,529 21,650

POPULATION OF THE GATUN LAKE AREA (OUTSIDE THE CANAL ZONE) WHO ARE DEPENDENT ON GATUN LAKE FOR TRANSPORTATION.

	Amer	icans.	Allot	ll others. Americans.					All others			
Location.	Men.	Em- ploy- ees.	Men.	Em- ploy- ees.	Wom- en.	Em- ploy- ees.	Chil- dren.	Wom- en.	Em- ploy- ees.	Chil- dren.	Total	
OPPER CHAGRES			181	6				148		233	56	
Gatuneilla	1		28	3				23		29	. 8	
Santa Rosa			40	5				26		36	10	
A A A A A A A A A A A A A A A A A A A			211	i				123		79	41	
RINIDAD RIVER	2		103	l				55		11,7	27	
Eseoval	2	1	138		2		1	152		148	4.4	
Siri	1	1	60					52		57	17	
ATUN RIVER	1		54					30		18	10	
New Limon	3	2	139	8	1		1	143		121	40	
New Providence	2		226	21	2			142		191	56	
Cabra Nague	_		27					13		16	5	
WEBRANCHA ARM	1		23		1			8		8	4	
Total employees		3		44							4	
Potal persons	12	,	1.230	**	6		2	915		1,052	3.21	

#### Tariff of Charges for Services Between Departments.

The Panama Canal and the Panama Railroad have published a departmental tariff, containing the schedule of rates for supplies and services furnished to departments and divisions of The Panama Canal, Panama Railroad Company, other departments of the United States Government, employees, and those entitled to employees' rates, which supersedes all circulars and supplements thereto, so far as they contain rates covered by this tariff.

The general instructions contained in published rate circulars, except as specifically amended in the tariff, are continued in full force

and effect.

The first issue of the departmental tariff has been designated as Departmental Tariff "A," and is effective July 1. In addition to containing the rates for services performed for those within the organization, as distinct from the rates to individuals and companies published in Tariff No. 4, Tariff "A" gives a number of items which are not included in Tariff No. 4. The following is a list of the contents of Tariff "A:"

Class I.—Equipment, use of—Automobiles; barges; cars, railroad; corral service; cranes; demurrage; diving equipment; locomotives; motor cars, railroad; pile drivers; tugs and launches.

Class II.—Transportation, railroad—Baggage; express shipments; freight; freight,

rates for handling; passenger service; special trains.

Class III.—Material and supplies—Artificial limbs and appliances; cement; coal; fuel oil; photographs; property, loan of, other than for official use; sand and gravel; water.

Class IV.—Medical, surgical, hospital, and dental service—Medical, hospital, and

surgical treatment; dentist's rates.

Class V.—License fees—Chauffeurs; motor boats; motor vehicles. Class VI.—Hotels, restaurants, and messes—Hotel Aspinwall; Hotel Tivoli; Washington Hotel; silver messes; subsistence furnished military and naval forces.

Class VII.—Building rental—Boathouses; garages.

Class VIII.—Surcharges—Panama Canal; Panama Railroad.

Class IX.—Miscellaneous—Baggage, P. R. R. transfer; batteries, charging of; blueprints; compressed air; electric current; fire extinguishers, charging of; household goods, customs inspection of; transmitting money by cable; telephones; tires, retreading and vulcanizing; weighing cars.

#### Postal Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C." Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

#### Launch to Leave Taboga 10 Minutes Earlier.

The time of departure of the daily launch from the Hotel Aspinwall at Taboga will be changed from 6.30 a. m. to 6.20 a. m., effective August 1, for the purpose of allowing commuters to reach Balboa 10 minutes earlier than heretofore.

#### Reduced Rate for Sunday Outings at Taboga.

The Hotel Aspinwall is offering Government employees a combination rate for Sunday outings spent at Taboga. A ticket costing \$2.50 for adults and \$1.50 for children between the ages of 6 and 12 years entitles the holder to transportation to Taboga Sunday morning, lunch and dinner at the Aspinwall, and return transportation to Balboa in the evening. These tickets are sold only at Dock 19, Balboa. They may be purchased with commissary coupons or currency. The combination rate is a reduction of 80 cents from the sum of the charges for the component services.

#### No Connection with Raffles of Liberty Bonds.

It has been brought to the attention of the Liberty Loan Committee that raffles of Liberty Bonds are being held in Panama City and that the impression prevails that the Liberty Loan Committee or the Collector's office is furnishing the bonds and interested in their sale by these raffles. Neither the Liberty Loan Committee nor the Collector's office has any interest whatever in any effort that is being made to dispose of Liberty Bonds by raffle or otherwise.

No bonds have been available for sale by the Liberty Loan Committee since the close of the Victory Loan campaign, in which the subscriptions exceeded the supply available.

#### Expansion of Panama Canal Library.

Branches of the Canal Library have been opened in the clubhouses for employees in Ancon and Balboa, with librarians in charge during the evening hours, from 4 until 9. Branches are to be opened in the clubs at Cristobal, Gatun, and Pedro Miguel as soon as arrangements can be completed.

The children's library in the school at Balboa is open from 1 to 4 p. m. on Mondays, Wednesdays, and Fridays during the vacation period.

The central library in the Administration Building at Balboa Heights is open from 8 to 4 p. m., daily except Sunday. The library has received accessions of new books, including reference works, current fiction, and literature approved by time, and those in charge will welcome suggestions as to additions which will make the stock of books more nearly meet the desires of the community.

#### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Board of Civil Service Examiners, Balboa Heights (telephone 286):

Animal nusbandman (male and female); \$1,800 to \$2,500 a year; No. 426; August 17, 1920; form 2118; age, 21 years but not 45 years.*

Assistant in nematology (male and female); \$1,000 to \$1,800 a year; No. 430; August 24, 1920; form 2118; age, 21 years and over.*

Mold maker (ceramics) (male and female); \$1,380 a year; No. 440; August 24, 1920; form 1312;

age, 21 years and over.*

Senior instructors (male and female); \$1,800 to \$3,600 a year; No. 389-amended; f orm 1312; [age. within reasonable age limits.†

Instructors (male and female); \$1,500 to \$3,000 a year; No. 389-amended; form 1312; age, within reasonable age limits.†
Senior inspector of car equipment (male and female); \$2,100 to \$3,600 a year; No. 425; form 1312;

age, 25 years but not 60 years.*
Statistical draftsman (male and female); \$1,500 a year; No. 415; August 3, 1920; form 1312; age,

years and over.* Statistical assistant (male and female); \$1,500 to \$2,100 a year; No. 190-amended; form 1312;

age, within reasonable age limits.†
Statistician (male and female); \$2,400 to \$3,600 a year; No. 190-amended; form 1312; age, within

reasonable age limits.† Preparator, Division of Mechanical Technology (male and female); No. 416; \$75 a month; August

1920; form 304; age, under 25 years, Medical Interne (male and female); \$1,200 a year; October 1, 1920; No. 191-amended; form 1312;

age, 20 years and over.

Bacteriologist (male and female); \$130 to \$180 a month; October 1, 1920; No. 10-amended; form age, 18 years and over.

Junior bacteriologist (male and female); \$70 a month; October 1, 1920; No. 10-amended; form 1312; age, 18 years and over.*

Electrolytic plate finisher (male and female); \$6.40 a day; No. 409; August 10, 1920; form 304;

20 years and over.* Electrolytic depositer (male and female); \$6 a day; No. 409; August 10, 1920; form 304; age, 20years and over.3

Veterinarian (male and female); \$1,500 a year; No. 405; August 4, September 22, and November 3, 1920; form 1312; age, 21 years but not 45 years.

Lay inspector (male and female); \$1,080 a year; No. 504; August 4, September 22, and November-

Lay inspector (inale and remale); \$1,000 a year; No. 504; August 4, September 22, and November. 3, 1920; form 304; age, 18 years but not 45 years.

Dictating-machine transcriber (male and female); \$1,100 to \$1,400 a year; No. 406; August 4, September 22, and November 3, 1920; form 304; age, 18 years and over.

Shop apprentice (male and female); \$720 a year; No. 380-amended; October 1, 1920; form 13121 age, 16 years but not 18 years.*

Transfigure auditor (male and female); Grade 2, \$2,500 to \$3,000 a year; Crade 2, \$2,000 to \$4,500.

age, 16 years but not 18 years.*

Traveling anditor (male and female); Grade 2, \$2,500 to \$3,000 a year; Grade 3, \$3,000 to \$4,500 a year; No. 177-amended; October 1, 1920; form 1312; age, 25 years but not 55 years.*

Resident auditor (male and female); Grade 2, \$2,500 to \$3,000 a year; Grade 3, \$3,000 to \$4,500 a year; No. 177-amended; October 1, 1920; form 1312; age, 25 years but not 55 years.*

Engineer examiner, civil, electrical, mechanical, signal, structural, telegraph, and telephone, Interstate Commerce Commission; (male and female); Class A, \$3,900 to \$4,800 a year; No. 418; October 1, 1920; form 1312; age, not less than 30 years nor over 60 years.*

Engineer examiner, civil, electrical, mechanical, signal, structural, telegraph, and telephone—Interstate Commerce Commission (male and female); Class B, \$2,220 to \$3,600 a year; No. 418; October 1, 1920; form 1312; age, not less than 25 years nor over 45 years.*

Calculating machine operator (male and female); \$1,200 a year; No. 120-amended, supplemental; October 6 and 20, 1920; form 304; age, 18 years and over.

Assistant in assay laboratory (male and female); \$1,200 a year; No. 423; August 10, 1920; form

Assistant in assay laboratory (male and female); \$1,200 a year; No. 423; August 10, 1920; form 1312; age, 20 years and over.*

tNonassembled. Applications will be received at any time until further notice.

#### Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroadi Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once: A111

Name.	Check No.	Native of-	Isthmian residence.	Employed by—	Date of death.
Heary Briggs Italia Bianchini Annie Chevalier Herman Edgar Richard Lewis John Stephen Johnson. Samuel Francis	47245 32083 22529 21665 20334	Panama Trinidad Guadeloupe Jamaica Jamaica	Colon Colon Panama Colon Panama	Mechanical Division. Supply Department Supply Department. Coaling Station. Supply Department. Supply Department. Supply Department. Coaling Plants.	July 14, 1920. July 17, 1920. July 9, 1920. July 10, 1920. June 27, 1920.

Estate of Herman Edgar is readvertised this week because of error in nationality in previous notice.

#### Route Service Jitney—Cristobal-Mt. Hope.

The following is the schedule of the official jitney service between the Terminal building at Cristobal and Mount Hope. Cars stop at the office of the Commissary Division each way:

Leave Termi	nal Building.	Leave Mount Hope.				
A. M.	P. M.	A. M.	P. M.			
8.00	12.30	8.15	12.45			
8.30	1.00	8.45	1.15			
9.00	1.30	9.15	1.45			
9.30	2.00	9.45	2.15			
10.00	2.30	10.15	2.45			
10 30	3,00	10 45	3.15			
	3,30		3.45			

^{*}Nonassembled. Date given for nonassembled examinations is the last day for filing applications and they must be in the hands of the Commission at Washington prior to the hour of closing business on that day.

#### Official Circulars.

Making Photographs of and Publishing Information Concerning Canal Zone Defenses.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., July 26, 1920.

CIRCULAR No. 649-1:

The attention of this office has been called by the military authorities to the violation of the regulations prohibiting the taking or publication of photographs of works of defense on the Canal of photographs of works of defense on the Canal Zone, and in order that there may be no further cause for complaint and that all concerned may be duly informed on the subject, there is quoted below paragraph 348 of the Army Regulations, which was published in The Panama Canal Record of January 8, 1919:

"The taking of photographic or other views of permanent works of defense will not be permitted. Neither written nor pictorial descriptions of these works will be made for publication without the authority of the Secretary of War, nor will any information be given concerning them which is

authority of the secretary of war, not will any information be given concerning them which is not contained in the printed reports and documents of the War Department."

Employees are directed to be guided by the provisions of the above-quoted regulations; nothing concerning the fortifications of the Canal shall be printed or otherwise published. Violation of be printed or otherwise published. Violation of this order will result in such administrative dis-cipline or penalty as the offense may warrant.

CHESTER HARDING, Governor.

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#### Notaries Public.

THE PANAMA CANAL,

EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., July 15, 1920.

CIRCULAR No. 725:

By virtue of the authority vested in me by Section 7 of the Panama Canal Act of August 24, 1912, I hereby establish the following rules and regulations relative to Notaries Public in and for

the Canal Zone:

1. The Notaries Public of the Canal Zone shall be appointed by the Governor of The Panama Canal. They shall hold their office for a term of three years from the date of their appointment,

and shall have jurisdiction co-extensive with the limits of the Canal Zone.

2. When a Notary Public is appointed by the Governor of The Panama Canal a commission shall be issued to him, signed by the Governor and sealed with the Seal of the Canal Zone. This commission shall be substantially in the following

Canal Zone, Isthmus of Panama

This is to certify that.... Canal Zone, has this 

ISEAL. ...... Governor.

Every Notary Public, before entering upon his duties as such, shall take and subscribe to the following oath or affirmation:

I, ..., solemnly swear (or affirm) that I will faithfully and impartially discharge and perform all the duties of the office of Notary Public within and for the Canal Zone, Isthmus of Panama, according to the best of my ability and understanding, agreeably to the leaves in force in the said Zone; that I recognize and accept the supreme authority of the United States in the said Zone, and will maintain true faith and allegiance thereto; and that I impose upon myself this obligation voluntarily, without mental reservation or purpose of evasion. help me God.

Subscribed and sworn to before me this ..... day of ..... A. D., 192..

District Judge.

4. These rules and regulations shall not be construed to require the reappointment of Notaries Public already commissioned, and they shall con-tinue in office to the end of their respective terms as if these rules and regulations had not been es-

tablished.

tablished.

5. Each Notary Public hereafter appointed shall have an impression seal, which shall be affixed to all papers officially signed by him. The seal shall be secured by the Notary Public at his own expense. It shall have the words "CANAL ZONE" on the margin of the seal, and the words "NOTARY PUBLIC" across the center of the seal. The phrase "My commission expires ......, 192.." may be written, typed, or affixed by means of a rubber stamp under the signature of the Notary Public. Existing Notaries Public may confinue to use their present seals to the end of their respective terms, and no longer.

may confinue to use their present seals to the end of their respective terms, and no longer.

6. Every Notary Public shall keep a register of all official acts. except administering oaths or affirmations for which no fee is charged, and shall give a certified copy of his record, or any part thereof, to any person applying for same and paying the legal fee or fees therefor.

7. Every Notary Public shall have the power, within the territorial limits of the Canal Zone, to administer all oaths and affirmations provided for by law and in all matters incident to his notarial office, and in matters relating to execution, affidavits, depositions and other documents reaffidavits, depositions and other documents requiring an oath, and to receive the proof or acknowledgment of all writings relating to commerce and navigation, such as bills of sale, bottomries, mortgages, and hypothecations of ships, vessels, or boats, charter parties or affreightments, letters or boats, charter parties or affreightments, letters of attorney, deeds, mortgages, transfers, and assignments of lands or buildings, or interests therein, and such other writings as are commonly proved or acknowledged before Notaries Public, to take affidavits and depositions; to demand acceptance or payment of any foreign, inland, or domestic bill of exchange, promissory note, or other obligation in writing, and to protest the same for nonacceptance or nonpayment, as the case may be and give notice to endorsers, makers. case may be, and give notice to endorsers, makers, drawers, or acceptors of such demand, nonaccept-

drawers, or acceptors of such demand, nonacceptance, or nonpayment; and to exercise and perform such other powers and duties as by the law of nations and according to commercial usage may be exercised and performed by Notaries Public, and to make declarations and attest the truth thereof under his seal of office concerning all matters done by him by virtue of his office.

8. When a Notary Public shall protest any draft, bill of exchange, or promissory note, he shall make a full and true record thereof in his register or book kept for that purpose, as well as of all his proceedings in relation thereto, and be shall note therein whether the demand for the sum of money mentioned therein was made, of whom, when, and where; whether he presented such draft, bill, or note; whether notices were given, to whom, and in what manner; where the same was made, and when, and to whom, and where directed, and of every other fact touching the same.

the same.

9. A Notary Public shall affix to all acknowledgments taken and certified by him according to law, the date on which his commission expires, provided such date of expiration is not engraved on the seal.

10. Notaries Public shall receive the following

fees for their services:

tees for their services;

(a) For protesting a bill or note for nonacceptance or nonpayment and giving notice thereof, one dollar (\$1); for recording same, fifty cents (\$0.50); for each notice of protest, twenty-five cents (\$0.25); for taking affidavit and affixing

stal, twenty-five cents (\$0.25); for administering an oath or affirmation, ten cents (\$0.10); for taking written depositions and affidavits, fifteen cents (\$0.15); for each one hundred (100) words, and for an additional copy thereof, five cents (\$0.05) for each one hundred (100) words; for taking proof of acknowledgment of any writing concerning real or personal estate and certificate thereof, fifty cents (\$0.50), and where there is more than one party to the instrument, twenty-five cents (\$0.25) for each one hundred (100) words, and not less than twenty-five cents (\$0.25) for any copy; for each mile necessarily traveled for any copy; for each mile necessarily traveled by the Notary Public to and from his residence

or office in performing services hereunder, ten cents (\$0.10).

(b) No fee shall be charged by any Notary Public for administering an oath or affirmation and attesting the same with his seal on any paper and attesting the same with his seal on any paper to be used in connection with any service application, income tax return, or other paper of like kind, which is required by any law or regulation to be sworn to before being filed with a department of the United States Government or the Panama Railroad Company, and which does not involve a money demand against the Government of the United States, The Panama Canal, or the Panama Railroad Company, in favor of the party making the earth or affirmation.

the Panama Raifroad Company, in layor of the party making the oath or affirmation.

(2) The fees collected by Notaries Public under these rules and regulations shall be for their own account and benefit. Provided, however, that no fee shall be charged by a Notary Public for any service or services performed by him for The Panama Canal or any other department or agency of the Government of the United States.

CHESTER HARDING.

Governor.

#### Acting Superintendent of Dredging.

THE PANAMA CANAL.

DEPT. OF OPERATION AND MAINTENANCE

BALBOA HEIGHTS, C. Z., July 24, 1920.

To all concerned—Effective the 26th instant, and during the absence of Mr. J. M. Pratt, Mr. J. G. Claybourn will act as Superintendent of Dredging in charge of the Dredging Division.

JAY J. MORROW. Engineer of Maintenance.

#### Additions to Commissary Stock. Boot and Shoe Section.

\$6.30
6.30
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Locks, Yale, shackle, ea..... *Five cents allowed for return of empty bottle.

#### COMMISSARY NOTES.

#### Fruit Syrup.

The success of the orange syrup and lemon syrup, whose manufacture was begun by the Commissary Division some months ago, has been such that other flavors are now being made to satisfy a popular demand. Crushed pineapple syrup, made from the native fruit of Panama, furnishes the base for a particularly delightful drink at small cost, a quart bottle retailing for 56 cents. Raspberry and strawberry syrups, made from the genuine fruit extracts, are sold at 60 cents and 62 cents, respectively. For the return of bottles 5 cents each is allowed. The convenience with which drinks from these syrups may be prepared has been a large factor in building up sales on the two flavors previously offered, for it is necessary only to add two or more tablespoonfuls to a glass of water in order to obtain a refreshing beverage.

#### Sunburn Lotion.

Responsive to requests for a sunburn lotion, the Commissary Division is now manufacturing carron oil which retails for 15 cents per bottle. This preparation forms an efficient application for the treatment of sunburn, allaying the irritation, being soothing and cooling. It will also afford relief in cases of recent burns or scalds.

#### Books.

Shipment of new titles of books in the Modern Library has been received and distributed to the line stores.

#### Books received:

"Golf for Beginners and Others," by Marshall Whitlach; "The Dark Mirror," by Louis Joseph Vance; "Something Else Again," by Franklin P. Adams; "The Man with Three Names," by Harold McGrath; "Half Portions," by Edna Ferber; "The Great Adventure of Panama," by Phillipe Bunau-Varilla; "Kathleen," "Travels in Philadelphia," by Christopher Morley; "Foolish Lovers," by St. John Ervine; "Many Junes," by Archibald Marshall; "The Cream of the Jest," by James Branch Cabell; "Crimson Tide." by Robert W. Chambers; "Landscape Painter," by Henry James; "Mary Marie," by Eleanor H. Porter; "Tarzan, the Untamed," by Edgar Rice Burroughs; "Lady Fingers," by Jackson Gregory; "As You Were, Bill," by Edward Streeter; "Women's Wild Oats," by C. Gasquoine Hartley; "Oh, You Tex," by Raine; "What's the World Coming To?" by Rupert Hughes; "Americans by Adoption," by Joseph Husband; "A Little Gateway to Science," by Edith M. Patch; "The Life of Roosevelt," by Wm. R. Thayer (popular priced edition).

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### THE PANAMA CANAL RECORD

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OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

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at Cristobal, C. Z., under the Act of March 3, 1879.

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Volume XIII.

Balboa Heights, C. Z., August 4, 1920.

No. 51.

#### Opening of the Panama Canal.

By the President of the United States of America: A Proclamation-

Whereas, Section 4 of the Act of Congress entitled "An Act To provide for the opening, maintenance, protection and operation of the Panama Canal, and the sanitation and government of the Canal Zone," approved August 24, 1912, (37 Stat. L. 561) and known as the Panama Canal Act, provides that upon the completion of the Panama Canal the President shall cause it to be officially and formally opened for use and operation; and

WHEREAS, the Canal is completed, and is open for commerce;

Now, Therefore, I, Woodrow Wilson, President of the United States of America, acting under the authority of the Panama Canal Act, do hereby declare and proclaim the official and formal opening of the Panama Canal for use and operation in conformity with the laws of the United States.

In Witness Whereof, I have hereunto set my hand and caused

the seal of the United States to be affixed.

DONE in the District of Columbia, this 12th day of July, in the year of our Lord One Thousand Nine Hundred and Twenty, and of the Independence of the United States of America, the One Hundred and Forty-fifth.

WOODROW WILSON

[SEAL.]
By the President:
NORMAN H. DAVIS,

Acting Secretary of State.

[No. 1570.]

#### CANAL WORK IN JUNE.

The following is the report of the Governor to the Secretary of War, of Canal work in the month of June, 1920:

BALBOA HEIGHTS, C. Z., July 26, 1920.

The Honorable, the Secretary of War, Washington, D. C.

Str: I have the honor to submit the following report of The Panama Canal for the month of June, 1920:

CANAL TRAFFIC.

The number of ocean-going commercial ships passing through the Canal during the month was 201, exclusive of 6 United States battleships, 3 United States Navy supply ships, 1 United States Army tug, and 1 merchant ship with coal for the United States Navy. A detailed classification of the month's traffic is included with this report.

The Panama Canal net tonnage of the 201 commercial vessels aggregated 704,712 tons; 147,713 tons less than for the preceding month. Their registered gross tonnage was 921,005, and registered net tonnage, 575,027. The total cargo carried was 834,421 tons of 2,240 pounds, 140,498 tons less than for May. Of the total for this month, 1,837 tons were carried as deck cargo. The total number of vessels and craft of all kinds through the Canal was 218, as compared with 237 last month. The total

tolls earned for the month were \$711,226.90; the average toll-paying vessels per day were 6.87; and the average tolls per vessel, \$3,434.89. Tolls collected amounted to \$704,210.53.

The average tonnage, Panama Canal measurement, was 3,506; United States net equivalent, 2,904; registered gross, 4,582; and registered net, 2,861. The average cargo carried by the laden ships was 4,369 tons.

The United States coastwise trade for the month included 15 vessels with a total Panama Canal net tonnage of 49,971, and cargo of 58,504 tons. There were 8 vessels from the Atlantic to the Pacific Coast with a total tonnage of 24,217 and cargo of 27,930 tons; and from the Pacific to the Atlantic Coast 7 vessels with a total tonnage of 25,754 and cargo of 30,574 tons.

#### PRINCIPAL COMMODITIES.

Bulk shipments of whole cargoes of the different principal commodities included in the June traffic were: FROM ATLANTIC TO PACIFIC.

Commodity.	No. of   cargoes.	Tons.	Total tons.	From—	То
Coal	1	12,090		Norfolk	Balboa.
Coal	1 1	6,325		Norfolk	Bremerton.
Coal	ī	4,532		Norfolk	Antefagasta.
Coal	ī	3,968		Norfolk	San Francisco.
Coal	i	3,670		Norfolk	Iquique.
	î	3,255		Norfolk	Caldera.
Coal	î	3,400		New York	Iquique.
Coal	î	2,740		New York	Taltal.
Coal	ii	546		New York	Valueraiso.
Coal	1 1	9,998		Hampton Roads	Honolulu,
Coal	i	7,853		Newport News	Antofagasta.
Coal	1 1	6,884	65,261	La Pallice	Arica.
Coal	9	17.543	00,201	Tampico	Pisagua.
Fuel oil	1	9,800		Tampico	Antofagasta.
Fuel oil	i	9,300		Tampico	Tocorilla.
Fuel oil	1	9,000		Tampico	Taltal.
Fuel oil	1	5,000		Tampico	Arica.
Fuel oil	1	10,000	60,643	Puerto Lobos	San Francisco.
Fuel oil	1	8,691	00,040	Port Arthur.	Shanghai.
Case oil	1	8.514	17.205	New York	Kobe
Case oil	1			Galveston	Portland.
Sulphur		6,400		Galveston	Vancouver.
Sulphur	1	3,100	74 700		Melhourne.
Sulphur	1	5,200	14,700	Sabine	
Sugar	1	6,464	10 104	London	Sydney.
Sugar	1 .	5,700	12,164	Matanzas	Melbourne.
Phosphate	1		5,858	Tampa	Osaka.
Sugar mill machinery	I		2,377	New York	Philippines.

#### FROM PACIFIC TO ATLANTIC.

Commodity.	No. of cargoes.	Tons.	Total tons.	From-	То—
Nitrate	2	16,039		Ant fagasta	Charleston, S. C.
Nitrate	1	8,000		Antofagasta	United Kingdom.
Nitrate	ī	3,300		Antofagasta	Norfolk.
Nitrate	î	11,200		Taltal	Baltimere.
Nitrate	î	5,299		Taltal	United Kingdom.
Nitrate	î	3,812		Taltal	Phila lelphia.
Nitrate	1	3,209		Taltal	Wilmington, N. C.
Nitrate	1	9,000		Tocopilla	Cha leston, S. C.
Nitrate	1	8,175		Tocopilla	Baltimore.
Nitrate	1	7.082		Tocopilla	Philadelphia.
	1	8,300		Mejillones	Wilmington, N. C.
Nitrate	1	3,300		Mejillones.	Boston.
Nitrate	1	7,100		Caleta Buena	New York.
Nitrate	1	3,168		Caleta Buena	Wilmington, N. C.
Nitrate	1	5,500			United Kingdom.
Nitrate	1			Iquique	Baltimore.
Nitrate	1	3,460	100 052	Iquique	New York.
Nitrate	2	4,069	109,953	Valparaiso	New York.
Flour	2	11,218		Seattle	
Flour	1	8,917		Tacoma	Philadelphia.
Flour	I	8,100		San Francisco	Alexandria, Egypt.
Flour	1	7,199	35,434	Portland	Glasgow.
Food products:				*** ***	T 3
Cold storage	2	14,083		Wellington	London.
Cold storage	1	8,400	22,483	Sydney	London.
Lumber	1	1,925		Taeoma	Nuevitas, Cuba.
Lumber	1	1,848	3,773	Seattle	Nuevitas, Cuba.
Diesel and gas oil	1		11,071	San Francisco	Gothenburg, Sweden.
Fuel oil	1		6,702	San Francisco	Malta.
Rice	1		6,500	Saigon, China	Habana.
Sugar	1		5,825	Kobe, Japan	New York.
Copper	1		2,500	Valparaiso	New York.

# LATIN-AMERICAN TRAFFIC.

Commercial vessels through the Canal en route to the west coast of Central and South America were classified as follows:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
British. United States Peruvian. Chilean. Norwegian Prench Dutch. German.	3 3	76,481 89,761 12,666 8,704 6,987 5,607 2,739 536	47,526 56,265 6,614 5,887 4,422 3,422 1,670 121	56,232 66,705 8,209 8,120 5,081 4,156 3,059 123	Tons. 61,059 77,241 2,183 1,819 9,300 6,884 1,600
Total	54	203,481	125,927	151,685	160,086

Four of the above vessels were in ballast, 1 from United States ports, 2 from Cristobal, and 1 from Mexico. Three vessels with a total Panama Canal net tonnage of 3,968, carrying 2,083 tons of cargo, were bound for Central American ports; the remainder for South American west coast ports. The registry of these vessels, the kind and quantity of their cargo, and its destination are shown as follows:

No. vessels	Registry.	Tons cargo.	Commodity.	Total commodity	Destined to—
4 4 3 3 3 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	British British British British British British British British British British British British British British British British British British British British British United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States French Dutch German	2,486 6,688 1,553 4,589 722 1,699 381 9,899 5,000 11,980 11,980 11,963 1,794 504 217 7,070 12,385 12,000 516	General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   General   Gene	37,259 23,800 21,612 21,612 33,056 17,543 1,819 9,300 6,884 1,600	Coronel, Gayaquil, Valparaiso. Buenaventura. Taleahuano. Tamaco. Champerico. San Jose. Antofagusta. Taltai. Arica. Buenaventura Valparaiso. Taltail. Salaverry. Buenaventura Tumaco. Iquijajae Antofagusta. Balboa. Callera. Taltail. Valparaiso. Pisagua. Baboa. Valparaiso. Pisagua. Baboa. Tocopilla. Callao. Valparaiso. Tocopilla. Tocopilla. Tocopilla. Arica. Talcail. Arica. Talcail. Arica. Talcail. Arica. Talcail. Arica. Talcail. Arica. Talcail. Arica. Talcail. Arica. Talcail. Arica. Talcail. Arica. Talcail. Arica. Talcail. Arica. Talcail. Arica. Talcail. Arica. Talcail. Balboa.
54				160.086	

The Latin-American traffic from the west coast of Central and South America for June is classified in the following tabulation:

Nationality.	No. of ships.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Cargo.
United States British &erman Chilean Norvegian Peruvian Duteh Japanese French Danish Colorabian	22 17 5 4 3 3 1 1	95,409 60,708 20,290 16,171 16,104 12,682 6,944 6,079 5,765 4,828	60,861 34,032 12,372 9,101 10,162 7,011 4,414 3,850 3,681 3,030 57	71,661 42,620 17,205 12,229 11,842 8,473 6,807 4,440 4,146 4,220 95	Tons. 91,838 35,100 18,799 7,664 3,300 8,927 11,200 8,175 6,681 6,369 27
Total	59	245,076	148,574	183,738	198,080

Ten of the above vessels were in ballast: 1 collier, 4 tugs, and 5 oil tankers; 57 per cent of the total cargo consisted of nitrate. All but 3 of the vessels, 2 from Central American ports and 1 from Panama, were from the South American west coast. This traffic is further classified in the following statement:

No. vessels	Registry.	Tons cargo.	Commodity.	Total commodity	Destined te-
33 32 11 32 21 10 4 21 13 31 11 22 33 11 11 23 11 11 23 11 11 11 11 11 11 11 11 11 11 11 11 11	United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States United States Friish British British German German German Chilean Chilean Norwegian Norwegian Peruvian Dutch Japanese French Danish Colombian	8,913 26,187 3,749 3,915	Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Ceneral. General. Copper. Ballast. Ballast. Ballast. Ballast. Ballast. Ballast. Nitrate. Ballast. Nitrate. Ballast. General. General. General. General. Nitrate. Ballast. Ballast. Ballast. Ballast. Ballast. General. Nitrate. Ballast. General. Nitrate. Ballast. General. Nitrate. Ballast. General. Nitrate. Ballast. General. Nitrate. Oeneral. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Nitrate. Oeneral. Nitrate. Nitrate. Nitrate. Nitrate. Oeneral. Nitrate. Nitrate. Oeneral.	71,579 17,759 2,500 35,100 18,799 7,664 3,300 8,927 11,200 8,175	Charleston, S. C. Wilmington, N. C. Philadelphia, New York. Baltimore. Boston. New York. Cristobal. New York. Tampico. Norfolk. Cristobal. United Kingdom. United Kingdom. United Kingdom. United Kingdom. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. Cristobal. New York. Norfolk. Tampico. Cristobal. Sew York. Norfolk. Tampico. Cristobal. New York. Nordel. Saltimore. Baltimore. Baltimore. Bordeaux. New York. New York. New York. New York. New York. Cartagena.
59				198,080	

Forty-six of the vessels passing through the Canal this month were under control of the United States Shipping Board, combining a total Panama Canal net tonnage of 172,589 and carrying 263,511 tons of cargo. Twenty-six were northbound with a total tonnage of 89,309 and cargo of 141,210 tons; 20 were southbound with a tonnage of 83,280 and cargo of 122,301 tons.

# PRINCIPAL TRADE ROUTES.

Statements attached to this report show the ports of origin and destination for all cargo through the Canal this month (see pages 752, 753, 754, and 759); the tabulation following gives the distribution according to the principal trade routes.

	Total vessels.				sels in last.
	Ves- sels.	Panama Canal net tennage.	Cargo.	Ves- sels.	Panama Canal net. tonnage.
Atlantic to Pacific. United States to west coast of South America. United States to Far East. Cristobal to west coast of South America. Europe to west coast of South America. United States coastwise. Mexico to west coast of South America. United States to Australia and New Zealand. Europe to Australia and New Zealand. Europe to west coast of United States. United States to Philippines Cristobal to west coast of Central America. Mexico to west coast of United States. Cuba to Australia and New Zealand. Europe to west coast of United States. Cuba to Australia and New Zealand. Europe to west coast of United States. Cuba to Australia and New Zealand. Europe to west coast of United States. Cuba to Australia and States to British Columbia.	19 18 8 8 7 7 4	56,312 91,591 24,436 32,426 24,217 34,543 28,932 27,893 13,276 7,168 1,398 5,877 3,520 2,459 1,769	64,633 136,237 9,779 32,948 27,930 50,643 41,324 19,027 8,450 10,290 1,6699 10,000 5,780 334 2,526 3,100	1 2 I 1 1 2 2	2,764 192 2,940 6,525 3,241
Total	102	358,387	424,750	7	15,662
West coast of South America to United States West coast of South America to Cristobal. West coast of South America to Europe. Far East to east coast of United States. United States coastwise.	23 18 11 9 7	81,656 27,392 52,115 38,567 25,754	123,267 22,032 51,667 63,188 30,574	1 1 3	6,910 123 350 5,034

		Total vess	sels.	Vess ball	els in ast.
	Ves- sels.	Panama Canal net tonnage.	Cargo.	Veg- sels.	Panama Canal net tonnage.
Australia and New Zealand to Europe. West coast of South Annerica to Mevico. West coast of United States to Cuba. West coast of United States to Europe British Columbia to United Kinedom Philippines to east coast of United States. West coast of United States to Cristobal. Far East to Europe. West coast of United States to Europe. West coast of United States to Europe. West coast of United States to Europe. West coast of United States to Europe. West coast of United States to Europe. West coast of Central America to Cristobal. Panama to North Colombian ports.	5 4 2	31,569 21,774 7,960 18,766 10,512 8,650 2,344 5,922 4,954 3,570 4,019 95	32,033 8,320 30,937 11,172 13,011 2,356 8,100 6,500 5,400 1,087 27		21,774 2,017 *5,922
Total	99	346,325	409,671	13	42,130

^{*}This vessel carried passengers only.

The total number of vessels above includes 1 Japanese cruiser, northbound, with a displacement tonnage of 7,800.

# SERVICES TO CANAL SHIPPING.

Miscellaneous repairs were made at Balboa and Cristobal shops and dry docks on 110 vessels and craft during June; 50 at Balboa and 60 at Cristobal; 19 were drydocked, 12 at Balboa and 7 at Cristobal. Bunker coal in the amount of 40,794 tons was supplied to 105 commercial vessels; 37,206 tons to 89 vessels at Cristobal, and 3,588 tons to 16 vessels at Balboa. Forty-two commercial vesse's were furnished a total of 82,549 barrels of fuel oil; 26 with 51,108 barrels at Cristobal, and 16 with 31,441 barrels at Balboa. There were 263 vessels supplied with water in the amount of 13,646,747 gallons; 148 at Cristobal with 10,036,997 gallons, and 115 at Balboa with 3,609,750 gallons. Sales of commissary supplies to commercial ships other than those of the Panama Railroad Steamship Line totaled \$79,867.22, including \$3,524.83 for laundry service; these sales having been made to 145 vessels at Cristobal in the amount of \$52,846.46, and to 83 vessels at Balboa in the amount of \$27,020.76. Charges for tug service for vessels using the Canal and the terminal ports totaled \$19,969.05, of which \$11,615.70 was earned at Cristobal and \$8,353.33 at Balboa.

# STATEMENT OF OPERATIONS.

Details of the business transacted at the Atlantic and Pacific terminals of the Canal are shown in the following tabulations:

Item.	Cistobal.	Balboa.	Total.
Commercial ships making transit of Canal.  Net tonnage of commercial ships, Panama Canal measurement.  United States equivalent net tonnage of commercial ships.  Registered gross tonnage of commercial ships.  Registered net tonnage of commercial ships.  Cargo through Canal in commercial ships, tons of 2,240 pounds.  Deck load cargo, included in above.	300,045 464,877	99 346,325 283,640 456,128 280,766 409,671 1,412	201 704.712 533,685 921,005 575,027 834,421 1.837
Nationality of commercial ships through the Canal:  British Chi'ean Colombian Danish Dutch French German	41 3	27 4 1 1	63 7 1 1 2 3
talian Japanese Norwegian Peruvian Swedish. United States	1 3	1 6 4 3 1	1 11 3 5 1 89
Total	102	99	201
Panama Canal net tonnage of commercial ships through the Canal: British Chikan Colombian	149,199 8,120	96,928 12,229 95	246,127 20,349 95

Item.	Cristobal.	Balboa.	Total.
Panama Canal net tonnage of commercial ships through the Canal—Contd. Danish. Dutch. French. German Italian Japanese. Norwegian. Peruvian. Swedish. United States.	3,059 6,169 123 19,215 5,081 8,209	4,220 6,807 4,146 17,205 3,950 22,969 12,963 8,473 4,019 152,321	4,220 9,866 10,315 17,328 3,950 42,184 18,44 16,682 4,019 311,533
Total	358,387	346,325	704,712
United States equivalent net tonnage of commercial ships through the Canal: British Chilean Colombian Danish Dutch French German Italian Japanese Norwegian Petuvian Swedish United States	125,962 4,822 1,653 5,604 113 17,174 4,438 5,723 134,556	76,528 7,890 84 4,165 4,384 3,600 12,185 2,908 20,785 11,061 6,232 2,244 131,574	202,490 12,712 84 4,165 6,037 9,204 12,298 2,908 37,959 11,955 2,244 266,130
Total	300,045	283,640	583,685
Registered gross tonnage of commercia! ships through the Canal: British Chilean Colombian	192,844 8,704	124,262 16,171 96	- 317,106 24,875 96
Danish Dutch French German Italian	2,739 7,768 536	4,828 6,944 5,765 20,290 4,302	4,828 9,683 13,533 20,826 4,302
Japanese. Norwegian Peruvian. Swedish. United States.	26,069 6,987 12,666 206,564	28,909 17,752 12,682 3,745 210,382	54,978 24,739 25,348 3,745 416,946
Total	464,877	456,128	921,005
Registered net tonnage of commercial ships through the Canal: British Chilean Colombian Danish	5,887	76,444 9,101 57 3,030	197,743 14,988 57 3,030 6,084
Dutch French German Italian Japanese Norwegian	5,388 121 16,565	4,414 3,681 12,272 2,773 17,636 10,973	9,069 12,493 2,773 34,201 15,395
Peruvian Swedish United States	132,295	7,014 2,858 130,413	13,628 2,858 262,708
Total	294,261	280,766	575,027
Cargo carried by ships of various nationalities: British Chilean Colombian	1,819	105,896 7,664 27 6,369	269,390 9,483 27 6,369
Danish Duteh French German Italian	1,600	11,200 6,681 18,799 5,200 38,413	12,800 13,565 18,799 5,200 70,501
Japanese. Norwegian Peruvian Swedish United States.	9,300 2,183	5,600 8,927 5,400 189,495	14,900 11,110 5,400 396,877
Total	424,750	409,671	834,421
Tolls levied against commercial ships by nationality: British. Chilean. Colombian Danish.	6,027.50	\$94,679.11 9,862.50 105.00 5,064.00	\$251,578.84 15,890.00 105.00 5,064.00

Item.	Cristobal.	Balb	Total.
			- 540 95
Tolls levied against commercial ships by nationality—Continued.  Dutch	2,066.25	5,480.00 4,500.00	7,546.25 10,503.00
Freneh	6,003.00	15, 125 87	15.214.40
German		3,635.00 29,499.55	3,635.00 50,789.25 15,577.78
Japanese	21,289.70 5,547.50 7,153.75	10 030 28 1	15,577.78
Norwegian	7,153.75	7,790.00 2,805.00	14,943.75 $2.805.00$
Peruvian	165,112.38	152,394.51	2,805.00 317,596.89
United States		\$340,970.82	\$711,159.19
Total	\$370,188.37		
Vessels passing through the Canal free of tolls:	6		6
II. S. Navy battleships	3		3
U. S. Navy supply ships U. S. Army tug Merchant ship with ecal for U. S. Navy	1 1		ī
Merchant ship with ecal for U. S. Navy	11		11
Total	11		2
Yachts, ocean-going, through the Canal	109	99	109
Net tonnage of above, I alianta Canal	.   115	99	214
Total ocean-going vessels transiting Canal  Launches through the Canal  Launches through the Canal  Launches through the Canal	27		27
Net tonnage of above, I analysis Carret	119	99	218 26,602
Cargo on which no tolls were enarged		1	1
Commercial ship through Canal without cargo but not in banast.  Net tonnage of above, National measurement.	5	7,800	7,800 17
Commercial ships through Canal III hands	8,087	35,735	11,322
Motor ships through the Canat	100	4,147	4,285
Net tonnage of above, Panama Canal measurement.	2 241		3,241
Net tonnage of above, Panama Canal measurement	3,241		
1.1.01	\$303,005.15	\$311,125.40 25,945.42	\$674,693.58 32,565.61
Tolls levied on laden ships through the Canal.  Tolls levied on ships in ballast.	0,020.13	3,900.00	3,900.00
Talls levied on ships in ballast. Talls levied on displacement tonnage. Tolls levied on yachts and launches.	108,99		108,99
Total tolls levied	. \$370,297 36	\$340,970.82	\$711,268.18
Total tous revied	251	219	470
Total ships entering port, including Canal transit. Total ships clearing port, including Canal transit.	250	220	470
Total ships handled	501	439	940
Total snips nandled	822,392	687,062	1,509,454
Net registered tonnage of vessels entering port Net registered tonnage of vessels clearing port	830,338	693,147	1,523,485
Total for vessels entering and clearing	1,652,730	1,380,209	
C - 1toping port	1,251,062	1,028,911	2,279,973 2,311,733
Registered gross tonnage of vessels clearing policies		1,038,238	- WOA WOO
Total for vessels entering and clearing.	2,524,557	2,067,149	
A 12 Laborated	44		148,747
Net tonnage of above	223.036	26,290	
Vessels dearing port but not passing through the	142 975	17,415	160,392
Gross tonnage of above.  Vessels clearing port but not passing through the Canal.  Net tonnage of above.	244,09	25,773	
Net tonnage of above Gross tonnage of above Vessels passing through Canal and handling passengers or eargo at por entering. Net tonnage of above	t, 3:	49	
entering Net tonnage of above	86,070 140,81		
Gross tonnage of above			
Transit eargo arriving tons Transit eargo eleared tons	862,92 862,02	874,740 7 871,27	
Transit eargo eleared	1,724,95		000
Total transit eargotons			= 2 000
Local cargo arriving ton Local cargo shipped ton	35.14 5 7,24		
Local cargo shippedton	42,39	2 45,72	5 88,117
Total Dear eargoton	39 98	3 4	1 40,024
Cargo received for transshipment ton Cargo transshipped ton	s 38.38	8 19 1 917,66	
Cargo transshipped. ton Total eargo arriving ton Total eargo cleared ton	39,98 38,38 8 938,05 907,66	3 874,31	6 1,781,979
Total cargo cleared		1	9 67,790
Cargo received by Receiving and Forwarding Agency of P. R. R ton	8 61,03 38,83 1,94	3 71	3 39,566
Cargo rehandled by Receiving and Forwarding Agency of P. R. R. ton	1,94	3,83	
Cargo received by Receiving and Forwarding Agency of P. R. R. ton Cargo disputched by Receiving and Forwarding Agency of P. R. R. ton Cargo rehandled by Receiving and Forwarding Agency of P. R. R. ton Total cargo handled by Receiving and Forwarding Agency of P. R. R. ton	101,8	11,28	35 113,137
r R. R.			

Item.	Cristobal.	Balboa.	Total.
Cargo stevedored, included in abovetons.	42,850	433	43,283
Commercial vessels, other than P. R. R. supplied with bunker coal Coal supplied above vesselstons. Panama Railroad vessels supplied with bunker coal	00	16 3,588	-
U. S. Army vessels supplied with coal	1,731	ii	1,73
Total vessels supplied with coal from Panama Railroad deposits	. 431	55 17	486
Total coal furnished above vessels. tons. Coal supplied Panama Railroad departments. tons. Coal supplied Army, excepting vessels. tons.	1 704	3,643 40	41,280 744 143
Coal supplied Army, excepting vessels.     tons.       Coal supplied The Panama Canal.     tons.       Coal supplied individuals and companies.     tons.	1,726 401	1,265	2,991 401
Total ccal furnished from Panama Railroad depositstons.		*6,530	*47,141
Coal received during June.         tons.           Coal on hand July 1, 1920.         tons.           Coal on band June 1, 1920.         tons.	45,903	12,091 5,561	35,891 51,464 62,714
Coal furnished U. S. Navy, including vesselstons.	6,398	6,167 1,582	12,565
Coal on hand, July 1, 1920 tons. Coal on hand, June 1, 1920 tons. Commercial vessels, other than P. R. R., supplied with fuel oil from Panama Canal tanks.	67,495 73,893	24,498 29,083	91,993 102,97
Fuel oil sold to above vessels barrels	THE RESERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN COLUMN TO SERVE ASSESSMENT OF THE PERSON NAMED IN	16	42
Wilel Oil Issued to U.S. Voyre	103	31,441	82,549 102
Fuel oil issued to U. S. Army barrels. Fuel oil issued to Canal departments barrels. Fuel oil sold to individuals and companies barrels.	5,810	21,937	27,747
Total fuel oil furnished from Panama Canal tanks. barrels.		5,372	5,720
Fuel oil on hand July 1 1920	22 020	58,750	116,581
other oil on hand June 1, 1920 barrels.  Other oil pumped for individuals and companies barrels.  Discalail on hand July 1, 1920	80,771 83,507	9,358 68,108 109,826 1,154	32,297 148,879 193,333 1,154
Vessels supplied with water Water sold to vessels. Vessels on which miscellancous repairs were made.  Vessels of dry-docked	10,036,997 53 7	3,609,750 38 12	13,646,747 91 19
Commercial vessels furnished commissary supplies	145 10 19	83 17	228 10 36
Total vessels furnished commissary supplies		100	274
Commissary sales to commercial vessels:			
lee. Wholesale groeeries Wholesale cold storage. Laundry. Miscellancous.		\$800.50 3,440.00 20,100.04 2.60	\$3,241.70 14,242.59 55,398.90 3,524.83
Total	53,568.55	1,955.53 26,298.67	3,459.20 79,867.22
Commissary sales to Panama Railroad vessels:			
Ice. Wholesale groceries.	\$422.00 2,211.15		\$422.00 2,211.15
Laundry	6,515.97 1,677.28		6,515.97 1,677.28
Miscellaneous	656.18		656.18
Total	\$11,482.58		\$11,482.58
Commissary sales to other Government vessels:	\$790.97	£232.49	\$1,023.46
Wholesale groceries. Wholesale cold storage. Laundry. Miscellaneous.	12,529.16 30,945.57 1,215.41 2,627.47	4,346.37 5,193.93 278.70 644.71	16,875.58 36,139.50 1,494.11 3,272.18
Total	\$43,108.58	\$10,696.20	\$58,804.78
Total commissary sales to all vessels.	\$113,159.71	\$36.994.87	\$150,154.58
assengers arriving, including transit passengers:			
First cabin. Other than first cabin.	2,771 3,480	1,785 2,464	4,550 5,944
Total	6,251	4,249	10,500

^{*}Includes 1.582 tons returned to Navy account.

Item.	Cristobal.	Balboa.	Total.
Passengers departing, including transit passengers: First cabin. Other than first cabin.	3,656 8,063	1,729 2,524	5,385 10,587
Total	11,719	4,253	15,972
Total movement of passengers	17,970	8,502	26,472
First cabin. Other than first cabin.	1,902 620	207 64	2,109 684
Total	2,522	271	2,793
Passengers embarking: First cabin Other than first cabin	2,451 1,235	151 124	2,602 1,359
Total	3,686	275	3,961
Bervice to American seamen: Seamen shipped. Seamen paid off. Seamen deserted. Seamen deceased.	148 19	147 77 2	364 225 21
Seamen lodged and subsisted Seamen repatriated Wages of American seamen:	46 22	20 10	66 32
Total amount earned.  Deductions approved by Deputy Shipping Commissioners		\$7,591.11 1,748.21	\$25,373.49 6,120.76
Balance due seamen	\$13,409.83	\$5,842.90	\$19,252.73
Paid to seamen. Received on deposit for seamen. Service to American vessels:		4,225.17 *1,917,73	11,616.54 7,936.19
Crew shipped. Crew paid off. Shipping article written.	1		.1
Marine notes of protest noted. Bills of health issued. Clearances issued.	14 130 132	9 124 117	23 254 249

^{*}Includes \$300 immigration deposits.

# LOCK OPERATION.

Lockages of commercial vessels for June were as follows:

	Number of lockages.			Number of vessels.		
	North.	South.	Total.	North.	South.	Total.
Gatun	91	94 100 104	185 191 200	99 97 98	107 104 105	206 201 203

All lockages, including Army and Navy vessels, those of the Panama Railroad and The Panama Canal, are shown in the following statement of lockages for June:

Lockages.	Gatun.	Pedro Miguel.	Miraflores.
Commercial. Noncommercial, Army and Navy. Noncommercial, Canal equipment.	185 12 2	191 11 25	200 11 19
TotalVessels.	199	227	230
Commercial. Noncommercial, Army and Navy. Noncommercial, Canal equipment.	206 17 14	201 17 49	203 20 51
Total	237	267	274

The total consumption of water for lockages during June was 1,412,650,000 cubic feet. The consumption by locks was as follows:

	Gatun.	Pedro Miguel.	Miraflores.
Leakage. Maintenance.	20,000,000	Cubic feet. 635,370,000 17,800,000 19,080,000	Cubic feet. 698,390,000 15,000.000 890,000
Total	797,280,000	672,250,000	714,280,000

# METEOROLOGY.

The recorded rainfall for June ranged from 4.42 inches at Balboa to 20.17 inches at Porto Bello; it was slightly below normal at both Canal entrances and over Gatun Lake and vicinity, and somewhat above normal over the Pacific slope and the extreme upper Chagres. The greatest daily precipitation recorded was 4.17 inches at Pedro Miguel on the 20th. The estimated rainfall over the Gatun Lake watershed was 11.06 inches, compared with a 10-year mean of 11.32 inches; and 15.09 inches over the Chagres River basin above Alhajuela, compared with a 19-year mean of 13.16 inches. The Chagres River discharge at Alhajuela was 19 per cent below the 19-year mean, or 2,090 c. f. s. against a mean of 2,574 c. f. s., and furnished 45 per cent of the Gatun Lake total yield.

The Gatun Lake watershed total yield was 4,670 c. f. s., 25 per cent below the 10-year mean of 6,245 c. f. s. The maximum June total yield since the existence of Gatun Lake was 7,895 c. f. s. in 1918, and the minimum total yield was 4,477 c. f. s. in 1912. The net yield for June, 1920, was 4,081 c. f. s. The maximum June net yield of record was 7,176 c. f. s. in 1918, and the minimum June net yield was 4,346 c. f. s. in 1912. The lake varied from a maximum elevation of 82.94 feet on the 30th, to a minimum elevation of 81.79 on the 1st. There was an increase in storage of

five billion cubic feet.

Miraflores Lake varied from a maximum elevation of 54.51 feet on the 20th, to a minimum elevation of 53.60 on the 15th and 16th. Elevation maintenance of the lake necessitated drawing 19,100,000 cubic feet from Gatun Lake during the month.

# ELECTRICAL DIVISION.

Gatun hydroelectric station-The gross output of this station for the month was 5,477,400 KWH on a computed water consumption of 3,989,830,000 cubic feet.

Miraflores steam plant—The gross output of this plant was 208,120 KWH on an oil consumption of 2,927 barrels. The load carried by this plant during the period of low lake level was transferred to the Gatun hydroelectric station on June 3.

Total power output—The total gross output of both stations was 5,685,520 KWH. The total power distributed to consumers was 4,753,138 KWH. The total loss of

power in plant auxiliaries, transmission, and transformation was 932,382 KWH or

16.40 per cent of the gross output.

There were no interruptions to transmission line service during the month. regular operation and maintenance of all substations was carried on without any extraordinary occurrences. The construction work at the substations could not be advanced in June, and remains in the same status as reported last month. cellaneous repairs and installations of electrical equipment were made on 61 vessels during the month; 21 at Cristobal, and 40 at Balboa.

Construction work for the Army is separately reported.

# SHOPS, FOUNDRY, AND DRY DOCK WORK.

Six vessels received extensive repairs at the Cristobal plant during June. A new circulating engine and pump were installed in the steamship General Gorgas, necessitating the construction of a new foundation and new copper fittings and piping from pump to condenser and from sea to pump, with new steam and exhaust engine The U. S. S. Eagle No. 14 was dry-docked and a cracked propeller blade The U. S. S. Eagle No. 32 had an extensive overhaul of turbines and gears. Various attempts were made to electrically weld cracks in the boiler of the steamship Larne; the boiler was found to be in very bad condition and incapable of being successfully repaired in this manner. The hull of the schooner Balsa was caulked and about half of its keel shoe reinstalled. The ballast pump of the steamship Chile was overhauled, the low pressure piston rod installed and general repairs to her engines and auxiliaries made. In addition, the following vessels received miscellaneous repairs: U. S. S. Culgoa, Sciota, Buford, Mt. Vernon, and tug Penguin; steamships Acajulla, Advance, Allianca, Ancon, Aylesbury, Aysen, Balboa, Caribbean, Cartago, Chile, City of Para, Cerro Gordo, Colon, Conshatta, Eastern Maid, Gen. Ernst, Gen. Goethals, Gen. Hodges, Greenald, Heredia, Inca. Jamaica, Lake Francis, Mantaro. Panama, Parismina, Peru, Puerto Rico, St. Andre, Steelmaker, Stuyvesant, San Jose, Vacyali, Urubamba, West Cheswald, West Hargrave, West Campgaw; yacht Hopestill; tugs Favorite, Tavennilla, Porto Bello, and St. Leyne; supply boat No. 1; launch Conroy; barge No. 29; and sloop Envoy. Seven vessels were dry-docked, including the U. S. S. Eagle No. 14 and L-53; steamships Cauca and Salvador; yacht Louise; schooner Balsa; and derrick barge No. 161.

Work at the Balboa plant included but 7 vessels on which extensive repairs were necessary. A new main propelling turbing was installed on the steamship.

were necessary. A new main propelling turbine was installed on the steamship Cansumset. Prior to the receipt of the new turbine from the States, and due to a change

in orders for the work, the more difficult part of the work of repairing the old turbine had been completed at the Balboa shops. This changed decision in the matter of repairs resulted in the vessel being tied up considerably longer than was necessary. The steamship Lale Elkwater was dry-docked, a broken propeller removed and replaced by one shipped from the States. This new propeller was found to be badly out of balance, and the necessary amount of metal was removed to correct this condition. A new propeller was cast at the Balboa foundry as a spare for the vessel. The Chinese steamship Hwah Jah was dry-docked on account of a damaged propeller. It was discovered that all 4 blades were broken close to the hull. A set of partly damaged blades on board the ship were repaired by welding and installed; a spare tail shaft was also installed in place of the one in the stern tube at the time of the accident. Extensive overhauls were made of the machinery of the steamships S. V. Harkness and Benjamin Brewster. The steering engine and ice machinery of the U. S. S. Connecticut were repaired, this work being carried on by both night and day shifts to avoid holding the fleet of 6 battleships to which the Connecticut was attached. The officers of this ship reported this part of her machinery after the repairs were completed as performing satisfactorily for the first time during the cruise. The conversion of the Culebra from a cattle ship to a suction dredge was nearly completed at the end of the month.

In addition, the following vessels received miscellaneous repairs at the Balboa plant: U. S. S. Sciota, Tacoma, Penguin, and subchaser No. 284; steamships Ashland County, Baja California, Balboa, Benoni, Caddo, Cethana, City of Para, Culburra, Eastern Pilot, Edna, Iroquois, Katherine, Kikuku Maru, Lake Fibre, Lake Fitch, Lake Foxboro, Lake Glasco, Nile, Olockson, Proteus, San Joaquin, Steelmaker, Ulysses, West Cheswald, West Kattan; motorship Orotina; yacht Gloriana; launches Grace and Vacuum; and barge Acapulco. Including those already mentioned, the following were dry-docked: Steamship Peru; tugs Cocoli and Empire; dredges Culebra and Gamboa; barges Nos. 91, 136, 140, and 226; caisson No. 1; and scow No. 140.

The output of the Mechanical Division in patterns, castings, and other foundry production for June, as compared with the preceding month, is shown as follows:

	June.		May.			
Iron Steel Brass	30 5	Castings. 1,208 266 846	Pounds. 64,581 55,382 9,364	46		141,362 44,235

The ordinary repair and maintenance work of the Mechanical Division included among other items for June the following:

among other items for June the following.	
Cars repaired	2,120
Locomotives and cranes repaired	. 891
Passenger coaches packed, cleaned, oiled, and inspected	. 2,447
Freight cars repacked	564
Locomotives hostled	1,419
Cranes hostled	
Locomotives ridden	
Locomotives inspected	
Crews instructed in handling locomotives	15
Crews instructed in oil and fuel economy	23
Crews instructed in air brakes	9
Cranes, locomotive, inspected	19

# BUILDING CONSTRUCTION.

The statement following represents the degree of completion, June 30, of the more important construction work performed by the Building Division:

Colon stables:	Per cent
	completed.
Six stables	(*)
One latrine	
Feed room and quarters	100
Shop building	100
Deposit pits	†95
West half—	
Six stables	75
Five wagon sheds	90 †\$ †\$
One feed room	†5
Shop building	†5
Silver townsite, Mt. Hope:	
Commissary	
Two houses, married quarters	95
Six houses, married quarters	90
Two houses, married quarters	85

	r cent
Two houses married querters	pleted.
Two houses, married quarters.	. 70
I WO HOUSES, INATTIEU CHATTETS	4 5
Three houses, married quarters.	, A. 4
Bachelor quarters	(*) (†)
Cristabal incingrator	(1)
Cristobal incinerator	96.1
Combination shop and storehouse, Cristobal.	. <b>6</b> 0
WOVING 3 IVDE-/ Bolises from Las Cascadas to New Crietobal	400
Attendious, Cristopal chippolise	100
Moving 2 type-7 houses from Las Cascadas to Gatun	. 30
Lighthouse, end of breakwater, Cristobal	. 80
National Catholic War Cannail Building Building Building	. 25
National Catholic War Council Building, Balboa	. 40
Atterations, Ancon restaurant	ΩE
Demolition of old French pier	175
Demolition of old French pier. Moving 3 type-7 houses from Las Cascadas to Pedro Miguel.	100
Moving garage from Las Cascadas to Pedro Miguel.	100
Addition to number of control Cornel	. 100
Addition to nurses' quarters, Corozal	. 100

*Commenced.

†Not started.

tNo work done during the month.

Building construction performed for the Army and Navy is separately reported.

# DREDGING DIVISION.

Cucaracha Slide showed a general movement during June. Two dipper dredges working continuously and 1 suction dredge working for 4 days in front of the slide removed 365,900 cubic yards of earth and rock, leaving at the end of the month 51,700 cubic yards within the Canal slopes between stations 1805 and 1814. Dredging during the latter part of the month was extended east of the east prism line into a proposed basin at the foot of the slide. A channel of 180 feet minimum width with a depth of 34 feet was maintained during the month with but slight interference to Canal traffic. The work of drilling and blasting large boulders at Cucaracha Slide was continued during the latter part of the month. Grader No. 1 was operated for 5 days, and No. 2 continuously in sluicing at the slide, removing 45,000 cubic yards (estimated quantity) of earth and rock.

The total excavation by dredges during June was 509,706 cubic yards, as follows:

Cubic yards.	Classif	ied as—	Character	Stations.	Equipment
Cubic Jards.	Earth.	Rock.	of work.	otations.	Equipment
(a) 191,500 (a) 168,900 (a) 5,500	57,400 50,700 2,200	134,100 118,200 3,300	Maintenance Maintenance Maintenance	Cucaracha Slide.       1805-00 to 1814-00 E. and W.       1805-00 to 1814-00 E. and W.       1812-00 to 1814-00 E.	Cascadas, Paraíso. *No. 86.
(a) 23,200	10,200	13,000	Maintenance	Gaillard Cut (by relay).  1843-50 to 1833-50 E. and W	• No. 86.
(b) 40,000 (b) 3,000 (b) 35,000 (c) 12,000	40,000 3,000 35,000 12,000		Maintenance Construction Maintenance Maintenance	2100-00 to 2110-80 E. 2100-00 to 2110-80 E. 2200-00 to 2214-50 W. Balboa inner harbor	No. 84. No. 84. No. 84. No. 84.
(d) 23,106	Sand and gravel 23,106 Mud		Aux. construction	Chagres River gravel beds	Marmot.
(d) 7,000	7,000 Earth and coal			Uncovering gravel beds	Marmot.
500	†500	268,600		Sunken coal barge No. 226	No. 88.

⁽a) Gaillard Cut. (b) Pacific entrance. (c) Balboa inner harbor. (d) Chagres River.

*This dredge rehandled 16,900 yards of earth and 18,100 yards of rock to relay at 1845-00 for which no credit is given in the above statement. †Excavation necessary in salvaging the barge.

The excavated material was dumped as follows:

	Cubic yards.
Gatun Lake north of Gamboa	357.500
Gatun Lake north of Gamboa	337,300
Canal north of Gold Hill	1,300
Canal south of Cucaracha Slide	7.100
Rio Grande valley	23,200
Amena 1 CH at Connect	
Arsenal fill at Corozal	
San Juan dump	47,000
Gamboa gravel plant	23.106
Charron Divor	
Chagres River	7,000
In canal (excavating barge)	500
Total	509.706

The following excavation remained to be done on July 1.

Location.	Earth.	Rock.	Total.
Gaillard Cut.	Cu. yds.	Cu. yds. 25,000	Cu. yds. 25,000
Pacific entrance	47,500	82,900	25,000 130,400
Total canal prism Cristobal coaling station Balboa inner harbor	47,500 109.850	107,900 2,100 13,400	155,400 2,100 123,250
Total, ocean to ocean	l		280,750

# MUNICIPAL ENGINEERING DIVISION.

This division had the following items of construction work in progress during June, with the completion on July 1 as shown:

# Northern District.

Municipal work between 7th and 9th and "G" and "K" Streets, Colon:	Per cent completed.
Roads	*95
Grading	35
Water lines	
Sanitary sewers.	
Alleyways	
Sidewalks	
Municipal work. New Cristobal townsite:	
	20
Grading	
Roads	
Water lines	
Sidewalks	400
Sanitary sewers	*75
Storm sewers	
Road to new incinerator, Mt. Hope	
Roads for west half, Colon stables	
Installation of water and sewer system, new Panama Railroad station, Gatun	
Construction of sidewalks on Lighthouse and Telephone Row, Gatun	30

^{*}No work done during the month.

Nothing was done during the month on the municipal work for the ten 12-family silver quarters nor the new silver townsite at Mt. Hope. Water connections were completed for the west half of the Colon stables. Three wells were drilled at Chagres village, the deepest to 650 feet. A fourth well drilled to a depth of 325 feet produced a flow of about 15 gallons per minute rising to about 24 feet below the surface of the ground.

Southern District.

	er cent npleted.
Box sewer, Panama Railroad yards	90
Sewer, Northern Avenue to beach  Demolition of Calidonia bridge.	. 99.1
Sewer and water lines for Central and South American Telegraph Company, Balboa	

No work was done on the three type-18 houses at Balboa; the new road to Diablo hill; the storm sewer at Javillo fill; or the concreting of the Panama Tramway tracks at Calidonia crossing.

The total output of all pumping stations for June was 755,867,900 gallons; and that of the 3 filtration plants, 454,889,000 gallons. The Mt. Hope plant was operated for but 29 days in June. The consumption in Panama City was 83,293,000 gallons; and that for Colon, 51,421,500 gallons. Sales of water to 148 vessels at Cristobal and 115 at Balboa totaled 13,646,747 gallons. There were 2,514 tons of garbage and 22 dead animals consumed at the Gavilan Island incinerator during June.

Work performed for the Army is separately reported.

# WORKING FORCE.

# (Effective June 23, 1920.)

Department or Division.	Gold.	Silver.	Total.
Operation and Maintenance: Office. Building Division Electrical Division. Municipal Engineering Division Lock Operation Dredging Division. Mechanical Division. Marine Division Fortifications	39 519 248 113 169 191 988 181 55	43 1,554 288 1,169 592 1,120 1,720 489 277	82 2,073 536 1,282 761 1,311 2,708 670 332
Total	2,503	7,252	9,755
Supply Department: Quartermaster Subsistence Commissary Cattle Industry Hotel Washington	216 36 313 28 10	1,894 391 1,605 803 103	2,110 427 1,918 831 113
Total	603	4,796	5,399
Accounting. Health Department. Executive Department.	250 245 567	10 837 248	260 1,082 815
Total	1,062	1,095	2,157
Superintendent. Transportation Receiving and Forwarding Agent. Coaling stations	74 148 98 120	578 182 1,947 1,173	652 330 2,045 1,293
Total	440	3,880	4,320
Grand total	4,608	17,023	21,631

# OCCUPATION OF QUARTERS.

Occupants of Panama Canal and Panama Railroad quarters on June 30, 1920, were classified as follows:

	Men.	Women.	Total.	
Americans, Europeans. West Indians.	3,841 247 4,574	2,216 97 1,870	2,553 206 3,647	8,610 550 10,091
Total	8,662	4,183	6,406	19,251

# PUBLIC HEALTH.

There were 204 cases of malaria in June, 31 of which were nonresidents, with 2 deaths. Influenza cases reported totaled 138, 82 of these being from a cattle pasture camp at Majagual. One death occurred from influenza and 6 from pneumonia, as compared with 8 from influenza and 16 from pneumonia in May. There were 18 cases of chickenpox in June, 10 for the preceding month, and 44 during April. Five cases of smallpox were discovered, 4 in the City of Panama and 1 nonresident. Two cases of scarlet fever and 1 case of leprosy were reported.

# RECEIPTS AND SALES OF MATERIAL AND SUPPLIES.

The total value of material ordered on United States requisitions during June was \$778,253.38; May receipts were \$935,219.76. Of the June receipts \$731,624.03 was chargeable to Operation and Maintenance, \$18,183.87 to Construction and Equipment, and \$28,445.48 to miscellaneous departments. The total cash sales on the Isthmus from storehouses and obsolete store amounted to \$271,826.23, of which \$265,139.10 was for stock material, including \$227,064.28 for fuel oil; \$586.19 for scrap material; and \$6,100.94 for obsolete and second-hand material.

Sales of material from storehouses to steamships for June amounted to \$231,317.76, of which \$19,022.01 was for miscellaneous stock items and \$212,295.75 for fuel oil. Total sales of commissary supplies to all purchasers for the month amounted to \$1,125,915.11, made up as follows: To steamships other than United States Government vessels and those of the Panama Railroad Steamship Line, \$80,338.78; to

The Panama Canal, \$134,321.71; to the United States Government, including the Army and Navy, \$226,441.56; to individuals and companies, mainly through charge accounts in the retail commissaries, \$30,127.25; to the Panama Railroad, including its steamships and the Hotel Washington, \$39,969.74; and to individuals purchasing coupons, \$614,716.07.

# FINANCIAL RECEIPTS AND EXPENDITURES.

The cash balance in Canal appropriations on June 30, exclusive of fortifications, was \$12,665,316.67; the balance in Fortifications was \$4,517,354.98. Payments from appropriations made by the Disbursing Clerk, Washington, amounted to \$902,554.92, and by the Paymaster on the Isthmus to \$1,585,712 19. Purchases of commissary books from the Panama Railroad Company amounted to \$373.512.32. Collections of tolls on the Isthmus totaled \$704,210.53. Deposits of \$108,900 were made with Assistant Treasurer of the United States to be applied in payment of

Collections of tolls on the Isthmus totaled \$704,210.53. Deposits of \$108,900 were made with Assistant Treasurer of the United States to be applied in payment of tolls and other charges against vessels using the Canal. The total Panama Canal collections on the Isthmus were \$2,443,893.07, and collections by the Disbursing Clerk, Washington, \$8,822.26. Receipts from Canal Zone and miscellaneous funds were \$166,958.04; disbursements from the same source were \$224,481.02. June payrolls on the Isthmus aggregated \$1,382,883.11, as compared with \$1,311,979.79 for May, an increase for this month of \$70,903.32.

Respectfully,

CHESTER HARDING.

Governor.

# Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending July 31, 1920.

	Line or charterer.	Arrived.	Departed.	Car	Cargo—		
Name of vessel.	Line or enarterer.	Arrived.	Departed.	Discharged	Laded.		
Toloa Caribbean Leon XIII. *Santa Leonora Haiti. Balboa. Colon. Calamares. Ucayali. Cartago. Acajutla. Cauca. Gen. H. F. Hodges. *Buford. Caribbean.	United Fruit Co Panama Railroad Cattle Industry Spanish Steamship Line. United States Army. French Steamship Line. Colombian Maritime Co. Panama Railroad Steamship Line. United Fruit Co Peruvian Steamship Co. United Fruit Co. Pacific Steam Navigation Co. Pacific Steam Navigation Co. Panama Railroad Steamship Line. Chilean Steamship Co. United States Army. Panama Railroad Cattle Industry.	July 25. July 25. July 26. July 26. July 26. July 28. July 28.	July 28 July 28	Tons. 34 656 3,500 555 843 754 643 180	Tons. (†) 219 1,748 243 316 3,103 104 697 133 1,022 926		
Allianca	Panama Railroad Steamship Line Pacific Mail Steamship Line Pacific Mail Steamship Line	July 29	July 29	742	2,204		
Panama	Panama Railroad Steamship Line						

^{*} U. S. Army transport.

† No cargo laded.

# Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Balboa for Week Ending July 31, 1920.

				Carg	0—
Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Acajutla. Cauca Point Judith Dungannon. Newport. Point Adams Hayden. Balboa Laura C. Hall. Lompoo.	Pacific Steam Navigation Co. Pacific Steam Navigation Co. Pacific Mail Steamship Co. United States Shipping Board Pacific Mail Steamship Co. Pacific Mail Steamship Co. United States Shipping Board Colombian Maritime Co. Pacific Metals Corporation. C. T. Bowring.	July 24. July 24. July 25. July 25. July 29. July 29. July 29. July 29. July 29. July 31.	July 26. July 29. July 30. July 29. July 29. July 29. July 29.	2	Tona. (†) (†) (†) (†) (†) 33 10 12 214 32 (†)

^{*} No cargo discharged.

Distribution Among Ports of Cargo Fassing through the Canal from Pacific to Atlantic, June, 1929.

	Alexandria, Egypt.	8,100	Totals.	1,087 30,439 4,119
	Wilmington, N. C.	2009	Kingdom.	8,000 30
	aotsaimliW		United	, ,
	Philadelphia, Pa.	3,100 3,812 7,082 4,152 8,917 7,600 5,200	London, England.	
•	Norfolk, Va.	3,300	Liverpool, England.	
June, 1920.	New York,	7,100 3,175 15,169 14,738 11,218 5,411 5,825 6,825 6,150 6,150	Newport, England.	
Atlantic, Ju	Charleston, S. C.	9,000	Malta.	
	Boston, Mass.	3,300	Havre, France.	
racinc	Baltimore, Md.	3,400 11,200 8,175 6,287 29,062	Gothenburg, Sweden.	
ai irom	Nuevitas, Cubs.	1,9848	Glasgow, Scotland.	
בשם בשו	,вларан Сира.	4,647	Christiania, Norway.	
nrougn	Cartagena, Colombia.	27	Bordeaux, France.	
dasing t	Cristobal, C. Z.	1,087 4,119 8,927 3,467 2,356 2,356		
Visitivation Annous Forts of Carson Farming the Canal Holm Facine to	From—	Acajutla, Salvador Anticagasta, Chile Anticagasta, Chile Buenavantura, Chile Callera Buena, Chile Charcay, Peru. Charcay, Peru. Charcay, Peru. Coronel, Chile Anama, Republic of Panama Meilliones Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chile Parlara Arenas Chi	From	Acajutla, Salvador Autofagasta, Chile Buenaventura, Colombia.

Distribution Among Ports of Cargo Passing Through the Canal from Pacific to Atlantic, June, 1920.-Continued.

alatoT	8, 400 11, 600 11, 600 11, 600 11, 600 12, 600 13, 940 13, 100 14, 100 14, 100 15, 100 16, 100 17, 100 17, 100 18, 100 18, 100 19, 100 10, 840 11, 100 11,	5,700 14,083 29,613 5,825 6,500 6,150 6,150
United Kingdom.	5,500	18,799
London, England.	6,474 3,039 8,400 8,400	14,083
Liverpool, England.	4,699 7,259 7,755 5,965	25.67
Newport, England.		00
Malta.	6,702	6,702
Havre, France.		5,700
Gothenburg, Sweden.	11,071	11,071
Clasgon, Scotland.	7,199	7,199
Christiania, Morway.	2,400	5,400
Bordeaux, France.	6,681	6,681
From	Callete, Perd. Characty, Perd. Characty, Perd. Coronel. (1bil.) Coronel. (1bil.) Coronel. (1bil.) Coronel. (1bil.) Mejillone, Chile. Nepillone, Chile. Talta, Chile. Talta, Chile. Talta, Chile. Tocopilla, Chile.	I tito, New Zelacionia. Melington, New Zealand. Bongkour, China. Saleya, Janan. Saleya, China. Shanghai, China. Singapore, Straits Settlements.

1920.
June,
to Pacific
to to
Atlantic
l from
e Cana
h th
ng Through
Passing
Cargo
Ports o
nong P
1 An
Distribution
A

	San Jose, Guatemala.	
	Champerico, Guatemala.	1,699
	Valparaiso, Chile.	3,603
	Tumaco, Colombia.	680
ine, 1920	Tocopilla, Chile.	
Atlantic to Pacific, June, 1	Taltal, Chile.	
ic to Pa	Taleahuano, Chile.	
1 Atlant	Salaverry, Peru,	
Passing Through the Canal from	Pisagua, Chile,	
the Can	Iquique, Chile.	
hrough.	Guayaquil, Ecuador.	1,962
T guisse	Coronel, Chile.	
Cargo Pa	Callao, Peru.	2,158
orts of	Caldera, Chile,	
Among Ports of	Baensven- tara, Col.	2.057
ution A	Balboa, Z.	
Distrib	Aries, Chile.	
	Antolagasta, Chile,	
	From-	Antwerp, Belglum. Baltimore, Md. Cristobal, C. Z.

San Jose, Guatemala.	788		384	Totals.	4 800 13,102 13,102 8 306 9,500 9,500 1,600 6,884 26,678 1,197 8,102 8,102 14,553 177,786 6,900
Champerico, Ciuatemala.			1,699	Sydney, Australia.	12, 164
Valparaiso, Chile.	85. 85. 85.		21,033	Melbourne, Australia.	6,700 4,030
Tumaco, Colombia.			939	Fremantle, Australia.	
Tocopilla, Chile.		9,300	9,300	Brisbane, Australia	13,180
Taital, Chile.	4 703	000,6	13,703	Wellington, N. Nealand.	6,803
Talcabuano, Chile,	1,600		11,343	Auckland, N. Zealand.	09
Salaverry, Peru.	20		1,794	Yekobama,	41,399
Pisagua, Chile.		17,543	17,543	Shanghai, China.	23,22
Iquique, Chile.	33	3,670	7,070	Osaka, Japan.	
Guayaquil, Ecuador.	n 23		2,489	Kobe, Japan.	6,300 8,102 21,816
Coronel,	14,016		19,135	Pl ilippine ebasiel	10,290
Callao, Peru.			2,183	Vanecuver,	3,100
Caldera, Chile.		3,255	3,255	Seattle, Wash.	5,200
Buenaven-			2,057	Pertland, Creg.	6,400
Balboa, C. Z.		13,000	12,090	Bremerton, Wash.	6,320
Arica, Chile.	188'9	5,000	11,884	San Francis- co, Cal.	4,800 3,159 2,526 3,650
Aniolagasta, Chile.	7,853	4,532	22,185	Los Angeles, Cal.	908.9
From—	Cuba. Tex. Glasgow, Scotland. Hamburg, Germany. Lar Pallice, France. Liverpool, Bugland. Mobile, Ala. Newport Navy. Va.	Norfolk, Ya. Pulidelphia, Pa. Puthdelphia, Pe. Port Arthur, Tex. Puerto Lobos, Mexico. Sabine, Tex. Savamah, Ga. Tampa, Ra. Tampa, Ra.	Total	From	Antweep, Belgium. Baltimore, Md. Cristobal, C. Z. Cuba. Cuba. Galveston, Trex. Glasgow, Scokland. Hamburg, Germany. In Pallice, France. Liverpool, England. Mobile, Ala. Newport, News, Vs. Norfolk, Vs. Norfolk, Vs. Philadelphia, Pa.

# The Fuel Situation.

THE PANAMA CANAL, MARINE DIVISION,

Balboa Heights, C. Z., July 27, 1920.

To all Steamship Agents—Since the issuance of my circular of July 19, the following information regarding the fuel situation has been received:

July 19—United States Shipping Board advises West India Oil Company has delivered cargo fuel oil at St. Thomas for company's own account, and Shipping Board expects one of its own tankers with oil for its own account to arrive there about 23d instant.

July 20—Panama Railroad, New York, advises expect to be able to send us 40,000 tons coal a month from now on, but not much more than that because preference will be given probably until December to northwest.

July 21—Panama Canal, Washington, states Shipping Board advises no fuel oil available for American vessels at Iquique, Callao or Tocopilla; that Shipping Board has two vessels without oil in distress at Iquique; carnestly requested that we supply Shipping Board vessels bound to west coast South America with sufficient oil to reach their destination and to return to Canal; that, otherwise, it will be impossible to continue vessels on that route.

July 22—Salina Cruz. Average of 500 barrels fuel oil received daily. Shortage of tank cars prevents larger receipts. Absolute necessities of vessels being cared for, but no prospects of being able to supply additional fifteen vessels monthly. Stock on hand 2,000 barrels.

July 23—Habana. American Consul advises two companies furnish fuel oil for bunkering. Habana Sinclair oil all contracted for will promise no bunkerage. West India oil all contracted for but so far havefurnished eleven gravity oil to American ships sufficient to reach American ports. No immediate prospect improvement by arrivals. Bunker coal on hand to-day about 10,000 tons arriving by end of month 18,000 tons additional. Not possible furnish full bunkerage for present. Will cable fortnightly unless advised to contrary.

July 24—Governor advised Panama Railroad, New York, requirement 46,000 tons coal next thirty days; that, in order to avoid diverting shipping from Canal and to build up reserve before winter, deliveries during next thirty days should be at least 60,000 tons.

American Consul, Valparaiso, advised oil not available for six months; coal unobtainable account strike at mines, small quantities available at Lota and Coronel upon ten days' notice.

American Consul, Lima, advised 1,700 tons coal available at Callao; within 30 days 1,000 tons additional will be received; British Admiralty has 1,500 tons for their ships; Pacific Steam Navigation has 1,000 tons on hand and 1,000 tons enroute. No oil bunkers at Callao; plenty at Talara, but must be previously contracted for in New York.

July 25—St. Thomas. Practically all coal obligated. Three thousand tons ready to load to-day Newport News; arrival indefinite. Twenty-six hundred tons fuel oil available.

E. P. Jessop, Marine Superintendent.

# The "Koyo Maru" Floated.

A radio report from the master of the salvage vessel Favorite advised that the steamship Koyo Maru, which ran aground on the north cay of Serrana Bank, about 30° miles north of Cristobal, on June 29, was pulled off the reef at 4.50 p. m., August 1. She has since been floating with a draft of 27 feet 6 inches forward and 22 feet 6 inches aft. The hole in her bottom is in the No. 1 hold, but the bulkhead between that and the No. 2 hold appears secure; the wrecking crew was reported as shoring it for additional safety, while the divers were making an examination of the ship's bottom. The cargo from the No. 1 hold which had been piled on the afterdeck was stowed in the No. 4 hold.

The Koyo Maru left Serrana Bank for Cristobal at 2 p. m., August 3, escorted by the Nemesis and the Favorite. They are due to arrive in the morning of August 6.

# Ships at Balboa Repair Shops.

The following vessels were at the Balboa shops for repairs during the week ending Monday, August 2:

Steamship Adria, 45 days' work on machinery and boilers; Silverado, machinery repairs; Westward Ho, machinery repairs; Marne, rebuilding; U. S. S. Eagle No. 14, main turbine and boiler work; La Habra and Caddo, periodical short running repairs; Guatemala and U. S. S. Sciota, minor repairs, day or so only.

# MOVEMENTS OF OCEAN VESSELS.

Week ending at midnight July 31, 1920.

	Canal		Net	1,982	2,577	4 180	5,448	1,783	2,187	2,706	1,907	350 60	2,015	1,023	5,118	55	2,014	5.358	2,184	1,747	5,342	1,799	
	Panama Cana	-	Gross	2,895			7,539				2,915	741	3,235	1,582	6,996		2000			2,828	7.488	2,765	1000
	4	Tons		3,000		9000			1,600	1,022	2,933	317	2,956	926	(e)		000	0.000		3,278		3,2593	
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		For—		San Francisco.	Valparaiso	Seattle	Talcaluano	Iquique	Soerbaio Java	Champerico	Talcahuano	Buenaventura.	Salaverry	Guayaquil	Tocopilla	Buenaventura.	San Francisco.	Brisbane	_	Arica	San Francisco.	Valparaiso	
		From-		Baltimore	Cristobal	Liverpool	New York	Nortolk	New York	Cristobal	New Orleans	Cristobal	New York	Cristobal.	Tampico	Cristobal	Nantes	New York	Newport News	Norfolk	Palo Blanco	Norfolk Norfolk	
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IC TO PA		Length Beam		289.0	350.0	410.0	424.2	201.0	400.7	215.7	253.6	81.0	299.0	246.0	425.5		268.0	390.0	305.0	253.4 385.0	434.0	253.4	
TEROUGH THE CANAL—ATLANTIC TO PACIFIG		Line		Pacific Mail Steamship Co	South American Steamship Line.	Alfred Holt & Co.	United States Steel Products Co	United States Shipping Board	United States Shipping Board	Pacific Steam Naviration Co	United States Shipping Board	Pacific Metals Corporation	W. R. Grace & Co.	United States Navy	W. Wilhelmsen	Colombian Maritime Co	Bendix I. Grefstad	Ellerman Hall Line	United States Shipping Board	United States Shipping Board	C. T. Bowring & Co.	United States Shipping Board Borquez & Co	1 1000000
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(a) Power schooner, (b) Subtender. (c) Barge. (d) Bark. (e) 62,000 barrels. (f) 72,000 barrels.

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# Gatun Lake Reaches Scheduled Level.

The first spilling of water from Gatun Lake since the beginning of the 1920 dry season was begun at Gatun spillway on July 26 at 6.42 a. m. It was the first spillway gate in operation necessary since December 15, 1919. This period of 7 months and 11 days is the longest nonspilling interim of record since the opening of the Canal. Three short runs of not more than 9 minutes each were made in the 7-month period for purposes of exhibition to visitors. The elevation of Gatun Lake when the spillway was opened on July 26 was 85.52 feet, the surface having been raised from the level of 81.77, which followed on the long dry season. The level is to be maintained for the present at approximately 85.50 feet above sea level.

It is indicative of the wet season water-producing ability of the Gatun Lake watershed that 17 billion cubic feet of water storage, above current demands of about 5.6 billion cubic feet per month, have been added to Gatun Lake since June 1, 1920. The total inflow since June 1 was about 27 billion cubic feet, equivalent to a basin of water 626,000 acres in area and 1 foot deep, deductions being

allowed for water lost by evaporation.

# Deceased Employees.

The estates of the following deceased employees of The Panama Canal or the Panama Railroad Company are now in process of settlement, and any claims against these estates, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due them, should be presented at the office of the Administrator of Estates at once in order that the estates may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. These names will be published but once:

Name.	Check No.	Native of—	Isthmian residence.	Employed by—	Date of death.
Paul Spencer Mends. alias Fredrick Mends				Building Division	
William Pitt, alias J.	172242	St. Vincent	Panama	Building Division	July 18, 1920.

# Official Circulars.

# Operation of Moving Picture Shows.

THE PANAMA CANAL, L'XECUTIVE CIFFICE,

BALBOA NEIGHTS, C. Z., July 24 1920.

CIRCULAR No. 726:

The following rules and regulations, superseding those contained in the circular approved July 8, 1920, will govern the operation of moving picture shows in the Canal Zone, exclusive of military posts for which separate regulations are established. lished:

MOVING PICTURE HALLS.

1. Written permission must be obtained from Written permission must be obtained from
the Governor before any bu'lling or enclosure
may be used for moving picture exhibitions.
 There shall be two main aisles and two direct

2. There shall be two main aisles and two direct exits in each assembly hall; the main aisles to be not less than 4 feet wide. Seats shall be spaced not less than 2 feet, 10 inches, from back to back. All doors shall open outwardly, and no door shall be less than 3 feet wide. No door shall be locked or fastened, and no passageway leading from doors to exits shall be obstructed or blocked in any way to hinder passage. Exits hy means of stairways shall be equal in width to 18 inches for each 100 persons, and for fractional parts of 100 a proportionate part of 18 inches shall be added. Stairways must be provided with suitable handrails, and no stairway shall be less than 2 feet, 6 inches wide. Red electric lights shall be root over each exit during the exhibition of pictures, and under them shall be a sign "EXIT" in letters not less than 5 inches in height. than 5 inches in height.

- 3. The walls, floor, and ceiling of every picture booth must be covered with metal or asbestos, and the door to the booth shall be metal-clad and swing outwardly or be of the sliding type. There shall be a metal flue or smoke pipe 18 inches in diameter extending from the ceiling to 2 feet about the reof of the pashin boyas termine. inches in diameter extending from the ceiling to 3 feet above the roof of the machine house, terminating in the open air. The openings in the booth through which pictures are shown shall be covered with an iron shutter which shall work in such a way that a high temperature will cause the shutter to be released and automatically close the openings. Films not in use shall be kept in metal boxes with tight-fitting covers.
- 4. Picture machines must be equipped and installed with the approval or the Electrical Engineer, and such approval must cover the entire machine, including all attachments, current-controlling devices, and other parts employed.

5. Whenever possible, a fireman shall be on duty near the booth. The duties of the fireman shall be first to extinguish the fire and then do all he can to maintain order and help people out of the building.

6. Smoking shall not be permitted in moving picture booths and at places where films are stored.

A fire extinguisher shall be placed on the outside and inside of each booth.

8. An adult male person shall be in charge of each exhibition.

9. A licensed operator must be in charge of each operating room. This operator must be in the operating room at all times when projection machines are in operation. Operators' assistants may be unlicensed, but they will not be permitted

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to operate machines except in the presence of a licensed operator who shall be held responsible for their performance.

### MOVING PICTURE OPERATORS.

10. No person shall operate any motion picture machine (other than of approved miniature type) within the Canal Zone, exclusive of Army posts, except in the presence and under the direc-

posts, except in the Canal 20ne, exclusive of Amy posts, except in the presence and under the direction of a duly licensed operator.

11, A license to operate motion picture machines, may be obtained from the Governor on recommendation of the electrical inspector. Prior to the issuance of Leense applicants must pass a satisfactory examination before the Inspector to determine their qualitications as operator.

12. Applicants for license must be males 18 years of age or more, must be able to read and write the English language, and applications must be endoised by two reputable citizens of the Canal Zone or Panana, vouching for applicants' sobriety and trustworthiness.

13. The electrical inspector will examine applicants relative to knowledge of electric wiring and apparatus so far as relates to motion picture machines, and will require a practical demonstration of ability to operate machines. Applicants must arrange for picture booth and machine for this purpose. this purpose.

14. License may be revoked for cause, such as intoxication, carelessness, etc., by the Governor. 15. Applicants who fail to pass an examination will not be permitted to appear again for examination for a period of 3 months.

16. The above rules and regulations shall be in

effect from and after this date.

CHESTER HARDING, Governor

# Staying Out of Panama and Colon during Elections.

THE PANAMA CANAL, EXECUTIVE DEPARTMENT, BALBOA HEIGHTS, C. Z., July 30, 1920.

To all concerned—In accordance with the usual custom, employees of The Panama Canal and Panama Railroad Company not required by duty or other necessity to be in the cities of Panama and Colon during the progress of the national elections Sunday, August 1, and of the manicipal elections on Sunday, August 8, are requested to remain away therefrom.

CHESTER HARDING, Governor.

# Acting Superintendent of Mechanical Division.

THE PANAMA CANAL, EXECUTIVE OFFICE,

BALBOA HEIGHTS, C. Consultant To all concerned—Effective July 31, 1920, and To all concerned of Commander Edwin G. Horbert H. during the absence of Commander Edwin G. Kintner, U. S. N., on leave, Mr. Herbert H. Evans will act as Superintendent of the Mechanical Division.

CHESTER HARDING.

Governor.

# Acting Resident Engineer, Bullding Division.

THE PANAMA CANAL, DEPT. OF OPERATION AND MAINTENANCE,

BALBOA HEIGHTS, C. Z., July 27, 1920.

To all concerned—Effective July 29, 1920, and until further orders, Mr. J. B. Fields, Superintendent, Building Division, will act as Resident Engineer in charge of the Building Division.

JAY J. MORROW, Engineer of Maintenance.

	Totals.	8,00 0,00 0,00 0,00 0,00 0,00 0,00 0,00	424,7
	Sydney, Australia.		19,164
754.	Melbourne, Australia.	5,200	21,710
from page	Fremantle, Australia.		5,214
Continued	Brisbane, Australia.		13,180
1920.—(	Wellington, M. Nealand.		6,803
bution Among Ports of Cargo Passing Through the Canal from Atlantic to Pacific, June, 1920.—Continued from page 754.	Auckland, M. Zealand.		09
o Pacifi	Yokobama, Japan.	3,950	52,249
tlantic	.isdzasd2 .sanid9	8,691	41,912
from A	Osaka, Japan.	5,858	5,858
Canal	Kobe, Japan.		36,218
ugh the	Philippine ebasalsi		10,290
ng Thro	Уапсопуст, В. С.		3,100
go Passi	Seattle, Wash.		5,200
s of Car	Portland, Oreg.		0,400
ng Port	Bremerton, Wash,		6,325
on Amo	San Francis- co, Cal.	10,000	24,175
Olstribution	Los Angeles, Cal.		908'9
SIQ	From—	Port Arthur, Tex. Puerto Lobos, Mexico. Sabine, Tex. Savannah, Ga. Tampico, Mexico. Tampico, Mexico.	Total

# Transportation on the "Cristobal."

THE PANAMA CANAL, EXECUTIVE DEPARTMENT, BALBOA HEIGHTS, C. Z., August 2, 1920.

To all concerned-Owing to the large number of separations from the service due to reductions of force, resignations, etc., of employees to be assigned to the steamship Cristobal scheduled to sail on or about August 16, and the fact that there are at present in this office more applications for transportation from employees and their families. than the accommodations available on this steamer, all applications received from the latter class will be honored in accordance with date of re-ceipt by this office. On account of this conges-tion no assurance can be given that transporta-tion can be furnished to employees whose appli-cations were received by this office after July 12, and unless otherwise requested these applica-tions will be considered for assignment to steamers scheduled to sail immediately after the sailing tions will be considered for assignment to steamers scheduled to sail immediately after the sailing of the steamship Cristobal on or about August 16, the following being a tentative schedule: Colon, August 27, Gen. Geo. W. Goethals, August 28. Any further information may be obtained by calling telephone 184, Balboa.

C. A. MCILVAINE. Executive Secretary.

# Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT, BALBOA HEIGHTS, C. Z., July 27, 1920.

CIRCULAR No. 249:

Effective July 25, 1920, Mr. John G. Claybourn is designated an accountable official of The Panama Canal, vice Mr. Joel M. Pratt, and as such

will account for all nonexpendable property in use in the Dredging Division.

ELWYN GREENE, Acting Auditor, The Panama Caual Approved:

CHESTER HARDING, Governor.

# Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT BALBOA HEIGHTS, C. Z., July 28, 1920

CIRCULAR No. 250:

Effective July 28, 1920, Mr. J. B. Fields, Super-intendent, Building Division, is designated an accountable official of The Panama Canal, rice Mr. T. C. Morris, and as such will account for all nonexpendable property in use in the Building Division.

ELWYN GREENE, Acting Auditor, The Panama Canal

Approved: CHESTER HARDING, GOVERNOY.

# Accountable Official.

THE PANAMA CANAL, ACCOUNTING DEPARTMENT BALBOA HEIGHTS, C. Z., July 29, 1920.

CIRCULAR No. 251:

Effective July 31, 1920, Mr. H. H. Evans is designated an accountable official of The Panama Canal, vice Com. E. G. Kintner, and as such will account for all nonexpendable property in use in the Mechanical Division.

ELWYN GREENE, Acting Auditor, The Panama Canal

Approved: CHESTER HARDING, Governor.

# COMMISSARY NOTE.

# Market Conditions Affect Cold Storage Supplies.

Great difficulties have been experienced the past few months in maintaining an adequate supply of perishable fruits and vegetables in the line commissaries and for the steamship trade. Requisitions for certain items, such as carrots, beets, parsnips, lettuce, and turnips have been placed repeatedly for sufficient quantities but time and again cancellations have occurred. The status of the markets has not been such as to permit the filling of orders in many cases and existing conditions were aggravated by the misinterpretation of a radiogram, as a result of which all cold storage articles, meats, eggs, dairy products, and vegetables ordered to come forward on the last trip of the steamship Cristobal, were canceled. The mistake was detected in time to permit the shipment of only a small quantity of the supplies desired.

The first serious shortage was experienced in April, when the commissary purchasing agent reported that all green vegetables were arriving in New York in poor condition due to delay incidental to strike of railway employees, the light supply causing heavy demand and increased prices. This condition continued until almost the end of May when the transportation situation was considerably relieved.

As an instance of the manner in which stocks were being received, the New York office wrote under date of June 15 that the lettuce offered was poor; that tomatoes were too ripe and that sweet polatoes, beets, turnips, carrots, parsnips, and apples were not in shipping condition. Strawberries and huckleberries were adversely affected by wet weather and although cantaloupes were not in bad condition the price was high. Peppers also could not be shipped on account of poor keeping qualities.

The prices quoted on cherries during the season were so high that only one shipment was purchased and the slow sales experienced proved that customers did not care particularly for them at the price which had to be asked. For this reason, strawberries, on which very high quotations also were received, were not purchased.

The commissary purchasing agent further advised on July 1 that the recent heavy rains had made it impossible to obtain good lettuce, berries, and other local products. It is believed that from this time on the situation will steadily improve, especially since the re-establishment of the Costa Rican purchasing agency which will permit

the shipment of fruits and vegetables from a near-by market.

# THE PANAMA CANAL RECORD



OFFICIAL PUBLICATION OF THE PANAMA CANAL.

PUBLISHED WEEKLY.

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at Cristobal, C. Z., under the Act of March 3, 1879.



Volume XIII.

Balboa Heights, C. Z., August 11, 1920.

No. 52.

# Handling of Rafts in Canal Waters.

THE PANAMA CANAL, EXECUTIVE OFFICE, BALBOA HEIGHTS, C. Z., July 29, 1920.

1. Paragraph No. 151 of the Navigation Regulations covering night service pro-

vides that:

"Rafts propelled by hand power, or by the current of the river or tide, or which shall be anchored in or near the channel or fairway, or proceeding in tow of a steam vessel, shall carry one white light on each outside corner of the raft, making four lights in all.

2. By day the International Code "T" shall be flown from the bow of the towing

vessel.

CHESTER HARDING,

Governor.

# Sailing with Passengers from Honolulu to New York.

Following her latest voyage through the Canal from Cuba to San Francisco, the passenger steamship *Cuba* of the Pacific Mail Steamship Company, is to be diverted to a special voyage from San Francisco to Honolulu, and from Honolulu to New York direct, by way of the Canal. She is due to sail from Honolulu about August 24. Upon completion of this voyage she will enter the service between Baltimore and San Francisco.

# Steamship Touring with Japanese Commercial Museum.

Unofficial advice has been received of the projected tour of a Japanese liner to the principal ports of the world with exhibits of Japanese inventions, porcelains, lacquer ware, raw and finished silk, and other products. She is due to sail from Japan this month, and is expected to reach the Canal about the end of this year.

# "Koyo Maru" Discharging Cargo to go into Dry Dock.

The steamship *Koyo Maru*, which was pulled off the reef at Serrana Bank on August 1, reached Cristobal on August 5, traveling under her own steam. She passed through the Canal on the same day and began the discharge of her cargo at Pier 18, Balboa, preparatory to going into the 1,000-foot dry dock for the reconstruction of her damaged forepeak and bottom of the No. 1 hold.

# Canal Traffic in July.

The Canal traffic for July, 1920, is shown as classified in the following tabulation:

PACIFIC TO ATLANTIC.

No. ehips.	Registry.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Tons cargo.	From—	То—
7 3 2 2	British Peruvian Chilean American	6,367	4,954 5,574 3,888 744	6,434 7,520 5,645 700	4,989 5,846 1,677 1,384	W. coast S. America W. coast S. America W. coast S. America W. coast S. America	Cristobal. Cristobal. Cristobal. Cristobal.
14		26,872	15,160	20,299	13,896	W. coast S. America	Cristobal.

# PACIFIC TO ATLANTIC—Continued.

No. ships.	Registry.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Tons.	From-	To-
13	American	78,160	52,309	62,105	93,081	West coast U. S	Europe
5 2 2 1 1	British Italian German Dutch Peruvian Chilean	24,390 13,793 12,094 6,424 4,763 3,367	14,398 8,113 7,687 4,231 3,089 2,356	18,215 9,204 10,289 4,760 3,544 2,286	16,527 7,988 10,508 8,000 2,128	W. coast S. America W. coast S. America W. coast S. America W. coast S. America W. coast S. America W. coast S. America	Europe. Europe. Europe. Europe. Europe. Europe. Europe.
12		64,831	39,874	48,298	45,151	W. coast S. America	Europe.
6 3 2	American British Norwegian	40,160 17,948 13,948	26,653 11,257 8,840	30,520 13,001 10,189	Ballast Ballast	W. coast S. America W. coast S. America W. coast S. America	Mexico. Mexico. Mexico.
11	,	72,056	46,750	53,710	Ballast	W. coast S. America	Mexico.
9	British	85,905	54,325	65,849	58,191	Australia and N. Z'land	Europe.
5 2 2	Japanese American British	31,411 11,732 11,667	20,000 7,146 7,381	24,066 11,437 8,844	38,808 16,300 17,108	Far East	E. coast U. S. E. coast U. S. E. coast U. S.
9		54,810	34,527	44,347	72,216	Far East	E. coast U. S.
9	American	48,358	29,826	38,241	36,438	U. S. coastwise.	
7 2	American British	35,154 12,070	20,891 7,465	25,684 8,966	23,026 4,735	W. coast S. America W. coast S. America	E. coast U. S. E. coast U. S.
9		47,224	28,356	34,650	27,761	W. coast S. America	E. coast U.S.
3	Danish American	20,569 8,713	13,915 5,489	16,224 6,724	27,293 1,418	Far EastFar East	Europe. Europe.
4		29,282	19,404	22,948	28,711	Far East	Europe.
2 1 1	American Chinese Japanese	12,336 6,026 5,860	8,456 3,871 4,261	9,768 4,432 4,400	15,100 6,500 7,612	Far East Far East Far East	Cuba. Cuba. Cuba.
4		24,222	16,588	18,600	29,212	Far East	Cuba.
3	American	20,620	12,767	16,097	Ballast	W. coast U. S	Mexico.
3	American	18,595	13,129	15,470	22,124	W. coast U. S	Egypt.
2	American Cuban	5,509 1,050	3,330 577	3,712 702	4,525 1,200	W. coast U. S	Cuba. Cuba.
3		6,559	3,907	4,414	5,725	W. coast U. S	Cuba.
2 1	British Costa Rican	2,298 265	1,304 194	1,398 207	1,760 233	W. coast Cen. America. W. coast Cen. America.	Cristobal. Cristobal.
3		2,563	1,498	1,605	1,993	W. coast Cen. America.	Cristobal.
1	British American	9,783 6,036	6,228 4,515	7,285 4,922	5,800 8,068	Australia and N. Z'land. Australia and N. Z'land.	United States. United States.
2		15,819	10,743	12,207	13,868	Australia and N. Z'land.	United States.
2	American	11,759	8,176	9,745	15,376	Philippines	E. coast U. S.
2	British	10,891	6,858	8,831	15,548	British Columbia	Europe.
2	British	7,154	4,613	5,528	4,203	W. coast Cen. America.	Europe.
2	American	4,796	2,962	3,756	2,003	W. coast U. S	Cristobal.
1	American	7,129	4,267	6,321	Ballast	British Columbia	Mexico.
1	American	2,286	1,393	1,927	3,000	W. coast S. America	Porto Rico.
118	1	639,891	407,432	494,948	488,497		

# ATLANTIC TO PACIFIC.

No.	Registry.	Registered gross tonnage.	Registered net tonnage.	Panama Canal net tonnage.	Tons cargo.	From-	То—
16 3 1 1	American Chilean British Jugoslav Norwegian.	63,812 14,014 5,210 3,185 2,095	37,997 8,069 3,216 2,034 1,302	47,409 8,792 4,113 2,254 1,668	59,040 10,687 2,512 4,025 3,090	E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S. E. coast U. S.	W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America.
22		88,316	52,618	64,236	79,354	E. coast U. S	W. coast S. America.
9 3 3 2	British Chilean American Peruvian	12,987 9,080 1,285 7,922	7,258 5,505 799 3,941	9,724 8,234 755 5,364	6,998 2,241 690 2,188	Cristobal	W. coast S. America. W. coast S. America. W. coast S. America. W. coast S. America.
17		31,274	17,503	24,077	12,117	Cristobal	W. coast S. America.
6 4 3	American British Japanese	35,680 21,536 17,609	24,664 13,829 11,574	29,144 18,818 13,616	46,259 27,530 18,280	E. coast U. S. E. coast U. S. E. coast U. S.	Far East. Far East.
13		74,825	50,067	61,578	92,069	E. coast U. S	Far East.
3 2 1 1 1 1 1	British Swedish French Italian Spanish Dutch American	28,177 7,576 5,818 4,680 4,600 3,689 1,386	16,783 5,714 3,712 2,850 3,625 2,291 1,224	19,376 7,936 4,166 3,593 3,166 3,660 1,224	8,553 6,820 1,048 391 Ballast 2,330 Ballast	Europe. Europe. Europe Europe Europe. Europe. Europe. Europe.	W. coast S. America, W. coast S. America. W. coast S. America.
10		55,926	36,199	43,121	19,142	Europe	W. coast S. America.
10	American	41,692	26,854	32,599	20,797	U. S. coastwise.	
4 2	American Norwegian	25,306 13,983	15,147 8,856	19,576 10,211	37,591 18,754	Mexico	W. coast S. America. W. coast S. America.
6		39,289	24,003	29,787	56,345	Mexico	W. coast S. America.
4	British American	24,342 8,287	15,705 5,155	19,751 6,113	25,152 9,825	E. coast U. S E. coast U. S	Australia and N. Z'd. Australia and N. Z'd.
5		32,629	20,860	25,864	34,977	E. coast U. S	Australia and N. Z'd.
4	British	40,099	25,762	29,826	37,539	Europe	Australia and N. Z'd.
2 1 1	French British Norwegian.	4,799 5,197 4,894	3,915 3,367 3,054	4,231 4,189 3,886	Ballast 6,000 2,000	Europe. Europe. Europe.	W. coast U. S. W. coast U. S. W. coast U. S.
4		14,890	10,336	12,306	8,000	Europe	W. coast U. S.
3	American	5,377	3,395	3,937	2,064	Cristobal	W. coast U. S.
2	British Costa Ricar	2,298 185	1,304 172	1,398 185	1,992 50	Cristobal	W. coast Cen. Am. W. coast Cen. Am.
3		2,483	1,476	1,583	2,042	Cristobal	W. coast Cen. Am.
1 1	Italian British	5,355 5,052	3,160 2,938	3,600 3,388	1,795 20	N. Colombian ports N. Colombian ports	W. coast S. America. W. coast S. America.
2		10,497	6,098	6,988	1,815	N. Colombian ports	W. coast S. America.
1 1	American British		3,581 2,760	4,893 3,414	5,000 4,800	Cuba	British Columbia. British Columbia.
2		10,028	6,341	8,307	9,800	Cuba	British Columbia.
1	British	7,270	4,513	5,342	10,746	Mexico	W. coast U. S.
1	American	<b>5,</b> 637	3,459	5,448	6,232	E. coast U. S	British Columbia.
1	British	5,265	3,223	4,032	Ballast	E. coast U. S	W. coast U. S.
1	American	3,099	2,365	2,316	4,478	Mexico	W. coast Cen. Am.
1	American	. 632	456	453	800	E. coast U. S.	W. coast Cen. Am.
1	*British					British West Indies	W. coast S. America.
1 107		469,188	295,519	361,850	398,317		

^{*}British light cruiser of 5,482 to as displacement.

# MOVEMENTS OF OCEAN VESSELS. Week ending at midnight August 7, 1920.

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Kennebec Ardoyne Quillwark. Sylvan Arrow Meton Lake Treia Lake Treia Esstern Pilot Scotia Maiden.	Walter Hard- eastle Diablo Heinan Maru, Santa Elisa West Wind West Wind Zealandie, Bessie Dollar, Bessie Dollar, Peru Guanacaste (9) Salvador, Broad Arrow.	Gen. O. H. Ernst. Effingham Glenpool

(q) Auxiliary schooner. (h) For orders. (i) Nitrates, sugar, iodiue, and ore. (j) Rice, rubber, tin, etc. (k) Manganese ore and copper. (l) Coffee, sugar, hides, etc. (m) 1,723 barrels. (n) 8,000 barrels.

# MOVEMENTS OF OCEAN VESSELS—Continued.

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	For-		New Orleans Boston Cristobal
	From		Antofagasta Iquique Puntarenas Buenaventura.
Salt	water	draft	23.0 20.0 8.8 10.0
	Beam		43.0 42.0 25.0 25.6
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(o) Motor schooner.

PORT OF CRISTOBAL.

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*DEPARTURES.	Line.	Caribbean         Panama Railroad Cattle Industry.         Cartagena.           Calumares         Calumares         New York via Habana.           Vilide Pruit Co.         Tampico.           San Pablo.         United Fruit Co.         Port Limon.           Parineston.         Parine Railroad Steamship Line.         Port Limon.           Parineston.         Panama Railroad Steamship Line.         New York via Haiti.           Mactagan.         United Fruit Co.         New Orleans.           United Fruit Co.         New Orleans.           Santa Marta.         United Fruit Co.         New Orleans.           Lybrid Line.         New Orleans.         New Orleans.           Panama Railroad Steamship Line.         New York.           Panama Railroad Steamship Line.         New York.           Balsa (p).         Port Linon.		*DEPARTURES.
	Vessel.	Caribbean (Salamares Wilhelm Jebsen. San Pablo Pstrores Pstrores Gen. H. F. Hodges. Metapan Heredia. Santa Marta Panama. Panama. Gen. W. C. Gorgas.		
	Date.	Aug. 1. Aug. 2. Aug. 2. Aug. 3. Aug. 3. Aug. 4. Aug. 4. Aug. 5. Aug. 6. Aug. 6. Aug. 6. Aug. 7.	PORT OF BALBOA.	
	From-	Port Limon. Liverpool via wayports. New York via Habana. Tampico. New Orleans. Boston. New York via Kingston. New York via Kingston. Kingston. Cartagena. Cartagena.	PORT OF	
*ARRIVALS.	Line.	United Fruit Co. Leyand Lime. United Fruit Co. Standard Oil Co. United Fruit Co. United Fruit Co. United Fruit Co. United Fruit Co. United Fruit Co. Inted Fruit Co. Famana Railroad Steamslip Line. Lindsay Swan Hunter, Ltd. Famana Railroad Cattle Industry.		*ARRIVALS.
	Vessel.	Calamares. Novian. Novian. Pratores. Pratores. Heredia. San Publo. Santa Marta. Metapan. Gen. W. G. Goggas Nomesis (c).	oner.	
	Date.	Aug. 2 Aug. 2 Aug. 2 Aug. 2 Aug. 3 Aug. 4 Aug. 4 Aug. 4 Aug. 5 Aug. 5	(p) Schooner,	

*Other than ships passing through the Canal.

Hours are expressed on the 24-hour basis and all hours greater than 12 are postmeridian.

Aug. 1..... | Silverado..... | United States Shipping Board..... | Antofagasta.

# The Fuel Situation.

THE PANAMA CANAL, MARINE DIVISION, Balboa Heights, C. Z., August 9, 1920.

To all steamship agents—Since the issuance of my circular of July 27, the following information regarding the fuel situation has been received:

Information regarding the fuel situation has been received:

July 28—Shipping Board advises informally sufficient oil at Honolulu and Manila for Shipping Board vessels only; cargo of fuel oil for Shipping Board expected to arrive St. Thomas 26th;* no oil available west coast South America for Shipping Board vessels.

July 30—Governor of San Juan advises bunker coal at present on hand about five thousand tons; average stock not less than four thousand tons; no oil available for bunkering ships.

Shipping Board advises tanker with fuel oil for St. Thomas not due until about August 9.*

July 31—Approximate average bunker coal available St. Michaels five thousand tons; Fayal same quantity; no fuel oil Azores.

August 2—American Consul at Port of Spain advises fuel oil supply to-day 500 tons 30 dollars a ton American currency; coal 3,200 tons 6 pounds 8 shillings a ton; necessary supply should be engaged by cable, as supplies fluctuate daily.

July 21—Letter received August 3 from Collector at San Diego, Cal., advises 200 tons of coal on hand for bunkering ships; supply usually maintained is about 400 tons.

Special attention is invited to the following cablegram dated the 7th instant from the American Consul at Barbados:

Consul at Barbados:
"Bunker coal available fifteen thousand tons; no fuel oil."

E. P. JESSOP, Marine Superintendent.

# From Tahiti with Whole Cargo of Coconut Oil.

The Scotia Maiden, an auxiliary schooner of 512 gross tons, arrived at Balboa on August 3 from Papeete, Tahiti, with a cargo consisting of 1,723 barrels of coconut oil, which she is carrying to New York.

# Whole Cargo of Creosote.

The tank steamship City of Reno arrived at the Canal on August 3 from Middlesbrough, bound for Seattle via Portland, with a whole cargo of 8,600 tons of creosote.

# Cargo of Bones.

A whole cargo of bones, 2,433 tons, was carried through the Canal by the motor ship Babinda, bound from Rio de Janeiro direct for San Francisco. The Babinda sailed from Balboa on August 2.

Report of Cargo Discharged and Laded by Vessels Entering and Clearing from Port of Cristobal for Week Ending August 7, 1920.

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ysen	August 2	August 1. August 1. August 2. August 2. August 3. August 4. August 4. August 4. August 5. August 6. August 6. August 5.	70ns.  20 728 7,000 1,410 1,768 54 2,809 9,899 1 15 203 310 787 552 640 183 474	Tons. 626 4 77 (*) 84 (*) 132 1,044 7,16 (*) (*) (*) 2,5(6) 2,988

^{*}This sailing was delayed until August 6; due to reach St. Thomas about 14th inst.

Report of Cargo Discharged and Laded by Vessels Entering and Glearing from Port of Balboa for Week Ending August 7, 1920.

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Name of vessel.	Line or charterer.	Arrived.	Departed.	Discharged	Laded.
Jamaica Peru Salvador Newport	Standard Oil Co. Pacific Steam Navigation Co. Pacific Steam Navigation Co. Pacific Steam Navigation Co. Pacific Mail Steamship Co. Union Oil Co.	August 4 August 5 August 5 August 6	August 5 August 5 August 6	13 32 92	Tons.

# Cruiser "Kasuga" Returning from Ceremonial Visit.

The Japanese cruiser *Kasuga*, which passed through the Canal on June-24, bound for Portland, Me., via New York, is due at Cristobal shortly, returning to the Pacific. The *Kasuga*, a veteran of the Japanese-Russian war, participated in the centennial exercises held by the State of Maine.

# Luckenbach Line's Coastwise Service.

In its reestablished United States coastwise service through the Canal, the Luckenbach Steamship Company is employing 5 ships. These are the *Frederick Luckenbach*, which made the first sailing from New York; the *Watonwan*, which is reported to have left San Francisco on July 30, for New York, via Los Angeles and San Diego, and the *Pleiades*, *Hattie Luckenbach*, and *Florence Luckenbach*. The *Pleiades* made her first passage through the Canal on August 16, 1914, the day following the informal opening of the Canal by the transit of the Panama Railroad steamer *Ancon*, and was the first ship in regular commercial traffic to pass through the Canal from Pacific to Atlantic.

The Luckenbach Company is reported to have acquired pier facilities in Philadelphia and to be arranging to make that city a port of

call in its coastwise service.

# General Quarantine Instructions.

The Panama Canal, Balboa Heights, C. Z., July 1, 1920. Circular No. 626–6 (superseding Circulars 626, 626-1, 626-2, 626-4, and 626-5):

By virtue of the authority contained in Executive Order of March 31, 1920, the following instructions relating to quarantine are hereby prescribed:

1. The purpose of maritime quarantine is to prevent the introduction by sea of cholera, yellow fever, plague, smallpox, typhus fever, leprosy, and other diseases that may become a danger to the Canal Zone or the Republic of Panama. To accomplish this object with the least possible delay to shipping and the traveling public it is desirable that masters and agents of vessels should understand the nature of the diseases to be guarded against in order to cooperate with the quarantine officers. Therefore, these instructions are issued for the general guidance of those in control of shipping as well as for quarantine officers of The Panama Canal. The careful observance of the advisory regulations applicable to vessels in foreign ports, and at sea, should generally prevent infection of vessels and tend to relieve the stringency of quarantine measures.

# MEASURES TO BE TAKEN IN FOREIGN PORTS.

2. Immediately on arrival in any port the captain should inform himself regarding sanitary conditions and prevailing diseases, and should take precautions to prevent the infection of his ship and her personnel, remembering that the necessary protective measures against infection vary with each disease, as will be specified hereafter.

# CHOLERA.

3. Cholera is an acute intestinal inflammation caused by the cholera vibrio. This organism is discharged from the bowels of those sick and occasionally from those who have been infected but show no symptoms (carriers) and passes to the mouth of another person by means of water, food, soiled fingers, flies, etc. The bacillus is easily killed by cooking food or boiling water. Cleanliness and heat prevent cholera.

4. At ports where cholera prevails, special care should be taken to prevent the water and food supply from being infected. The drinking water, unless of absolutely known purity, should be boiled and the food thoroughly cooked and protected against

contamination by flies, etc.

The latrines of vessels must be kept thoroughly clean.

5. The latrines of vessels must be kept thoroughly clean.6. Vessels should not take water ballast from a source contaminated or suspected

of contamination by cholera.

7. No food products should be taken on board unless it is definitely ascertained that they have not been exposed to infection. Food products that may be eaten raw should be refused or should be immediately cooked. The baggage of passengers should be inspected to prevent food coming on board. Officers, crew, and transit passengers should, if practicable, remain on board ship. If necessary to go ashore while there, they should take no food or drink unless it has been recently cooked or

8. Passengers coming from cholera-infected districts should not be allowed on board ship until they have been detained 5 days in suitable houses or barracks located where there is no danger of infection, or an examination of their stools for cholera carriers should be made. All food carried by such passengers should be im-

mediately cooked or be destroyed.

9. Passengers from districts not infected with cholera, embarking at a port that is so infected, should be treated as if from cholera-infected districts, unless they passed through the infected port without danger of infection, especially as to food and drink.

10. Should cholera appear in the barracks or houses in which passengers are undergoing detention, no passengers from said houses or barracks who have presumably been exposed to this new infection should embark until after the expiration of a period of 5 days subsequent to the last exposure to the infection and the application of all necessary sanitary measures, including examination of stools.

# YELLOW FEVER.

11. Yellow fever is an acute febrile disease transmitted by one species of mosquitoes, viz., the Aedes calopus. In general it is necessary that this mosquito bite a yellow fever patient during the first 3 days of the illness, incubate the organism in its body for 12 days, and then bite a nonimmune person, who ordinarily will show symptoms within 6 days. The yellow fever mosquito breeds in fresh water in or near houses or on ships; it can fly but a short distance and bites by preference in late afternoon or evening. If once on board a vessel, these mosquitoes may remain several weeks.

12. At ports where yellow fever mosquitoes prevail, precautions should be taken

to prevent the introduction of these mosquitoes on board the vessel. Water tanks, water buckets, and other collections of fresh water about the vessel should be guarded in such a manner that they shall not become breeding places for mosquitoes. The ship's company and passengers in transit should not leave the vessel, which should lie at an anchorage where it will be impossible for the yellow fever mosquito to gain access to it from the shore, viz., 1,000 feet or more, and lighters or other craft coming alongside should be mosquito-free. If the vessel lies at an anchorage which rendered it liable to the access of mosquitoes, fumigation, immediately before sailing, should be carried out to destroy them. If this fumigation is efficiently done, in the opinion of the quarantine officer, the detention of persons on account of this disease will be considered as dating from that time.

13. Passengers and crew who, in the opinion of the inspecting officer, have been definitely exposed to yellow fever should not be allowed to embark until 6 days

have elapsed since such exposure.

14. Passengers from infected interior points embarking at noninfected ports may be treated as if coming from infected ports but the time such passengers have remained in such a noninfected port may be counted against their detention period.

15. Passengers from interior places free from infection embarking at an infected

port should remain in such port as short a time as possible.

# PLAGUE.

16. Bubonic plague is primarily a rat disease transmitted from one rat to another by means of fleas. Human beings may contract the disease when infected rat-fleas bite them, but do not ordinarily give the disease to others. The danger to commerce is from rats, as they infest ships and spread the disease. A port without human cases is not necessarily free from rat plague as these cases do not appear until the rat infection has hecome intense.

17. Pneumonic plague, for the application of preventive measures, may be considered as a separate disease transmitted solely through personal contact in the same fashion as pneumonia or other respiratory affections. Neither the flea nor other insects are con-

cerned in its transmission.

18. At ports where human cases of bubonic plague have occurred it must be assumed that the disease has persisted among rats unless its absence over a long period of time has been demonstrated. At such ports vessels should take every precaution to prevent rats, fleas, or other vermin from getting aboard, and should not lie at the dock unless this is of rat-proof construction and is kept free from rats by proper provincing and care. Localize should be done by lighter and these should be least the dock unless this is of rat-proof construction and is kept free from rats by proper supervision and care. Loading should be done by lighters and these should be kept free from rats by periodic fumigation, especially if of the enclosed type. If it is necessary to dock at such a port or in fact at any port where the absence of rodent plague is not assured by the constant trapping and examination of rats, the following precautions to prevent rats getting aboard should be taken: The vessel should be breasted off at least 4 feet, rat guards should be put on all mooring lines. Gangways, save-alls, and other means of communication with shore should be hoisted when not being used. At night the gangways should be hoisted or be brilliantly illuminated and guarded by a watchman.

19. Rat guards must be 3 feet in diameter, must fit the bayer spuch and

19. Rat guards must be 3 feet in diameter, must fit the hauser snugly and should not overhang the wharf. Where rat guards are not available, lines may be wrapped with freshly tarred canvas or jute bagging. This should be placed near the vessel and should cover the line for a distance of 3 feet.

20. Periodic fumigation of all vessels, especially those calling at infected ports, every 3 to 6 months is strongly recommended, in order to reduce the rat destruction of cargo, the spread of plague, and delays on account of quarantine. Where there are evidences of rats on board, or 3 months have elapsed since last fumigation, the captain should request a complete fumigation the first time his vessel is entirely discharged at a port of the Panama Canal or wherever a thorough fumigation can be done. (See paragraphs 78, 81, 83.)

21. The nature of cargo taken on board from plague-infected territory should be considered. If it consists of grain or other rat food, previous fumigation of the vessel should be done as otherwise the rats on board will do considerable damage and will multiply rapidly during the voyage. If the freight consists of crates or packages that may harbor rats, it should be fumigated or be refused if from a place not known to be free from rat infection. All freight from badly infected districts should be

refused. (See paragraph 60.)

# SMALLPOX.

22. Smallpox is an acute contagious disease transmitted by contact, that is, by the direct transfer of the infecting organism (exact nature unknown) from a sick person to one who is well. The disease has the peculiarity of presenting more severe symptoms (fever, headache, backache, vomiting) before the eruption than after it appears. Anyone may take the discase unless he is immune either because he has already had the disease or because he has been successfully vaccinated. Masters should see that all members of their crew are vaccinated.

23. Steerage passengers and crew coming from districts where smallpox prevails and all persons intending to remain in the Canal Zone or Republic of Panama must be successfully vaccinated, unless they show satisfactory evidence of having ac-

quired immunity to smallpox. (See paragraph 75.)

# TYPHUS FEVER.

24. Typhus fever is an acute infectious disease of sudden onset. The patient becomes rapidly very sick and usually has severe delirium or other nervous symptoms and a skin eruption. The disease is transmitted by the body louse (pediculus corporis). These insects live and deposit eggs in recently worn clothing, especially in the seams and under-clothing. They are best killed by boiling or baking the clothes.

25. Soiled linen, personal effects in use, belongings of crew and passengers who embark at places where typhus fever prevails and which may harbor vermin must be rendered free from same. Persons who are not clean and may be lousy should be bathed and their clothing boiled or baked.

# LEPROSY.

26. Leprosy is a chronic contagious disease probably transmitted by contact.

27. No one who is suffering from leprosy should be allowed to embark unless especially authorized to do so and he is proceeding to his own country. In this case

such person should be given a separate mess outfit and sleep apart from other persons. Members of a leper's family accompanying him should be similarly separated from other passengers.

BILLS OF HEALTH.

28. Before departure from any port except those of the Republic of Panama, a United States bill of health, or port sanitary statement if from a United States port, should be obtained and any sanitary precautions taken should be entered upon that document.

# MEASURES TO BE TAKEN AT SEA.

29. The master of a vessel should observe the following measures:(a) All portions of the ship should be kept clean and as dry as possible. This applies especially to living quarters, washrooms, and water-closets. For this purpose soap or cleaning preparations and water are sufficient; disinfectants and deodorants are not required.

(b) Living quarters should not be crowded and free ventilation should be enforced. This should be in accordance with the provisions of the Act of Congress approved August 2, 1882, entitled "An Act to regulate the carriage of passengers at sea."

(c) Rats, bedbugs, lice, fleas, mosquitoes, flies, and all insects should be promptly

(d) Utensils used for food should be cleaned in boiling water after each meal. Common towels and drinking cups should not be allowed.

(e) To enforce the above, a daily inspection should be made by the captain personally, accompanied by the ship's physician.

30. A separate compartment should be reserved for the sick and anyone having a chill, fever, or other symptoms of acute illness should be isolated. The compartment from which the patient has been removed should be scrubbed with soap and water and be well aired. Bedding and personal effects should be moved with the patient or should be disinfected. (See paragraphs 76, 77.) If this is not possible, they should be exposed to the weather for at least 24 hours. No article or utensil should be removed from the sick room until it has been immersed for at least 1 hour in a solution of carbolic acid, 1 part of acid to 20 of water, or a similar solution, or has been boiled. Anyone attending the sick should wash his hands thoroughly with soap and water before leaving the room. The patient's temperature should be taken at least twice a day and this and other symptoms should be noted in writing. It is suggested that each vessel carry at least 2 clinical thermometers and 10 pounds of carbolic acid.

31. In case a quarantinable disease is suspected, special measures should be taken against the infecting insect or medium as indicated previously in these instructions.

32. Vessels nearing port and having sickness on board should wireless that information to the Captain of the Port, stating as nearly as possible the nature of the illness. This precaution may add to the comfort of the patient and save time for the ship.

# PROCEDURE AT CANAL PORTS.

# INSPECTION.

33. Regular hours for quarantine inspection are from sunrise to sunset. Night

quarantine inspections will be made as follows:

(a) Vessels from ports not subject to a yellow fever quarantine, passing breakwater at Cristobal harbor before 10 p. m., will be boarded and inspected by the quarantine officer, if quarantine inspection on the night of arrival is desired.

(b) Vessels from ports not subject to a yellow fever quarantine, arriving at Balboa, on a line between San Jose Rock and No. 2 Buoy, before 10 p. m., will be boarded and inspected by the quarantine officer provided masters of said vessels desiring pratique on arrival have notified the Port Captain, Balboa, previous to 4 p. m., on day of arrival.

(c) A charge of \$40 for passenger vessels, and \$20 for others, will be made against all vessels availing themselves of quarantine inspection after sunset. When vessels, bound for Balboa, notify the Port Captain of their desire for night boarding, this charge will be made whether or not the ship arrives in time for such boarding.

(d) Final disposition of vessels inspected after sunset may be deferred at the dis-

cretion of the quarantine officer.

(e) Vessels from ports subject to a yellow fever quarantine will be inspected only

by daylight. 34. On arrival, vessels will first be boarded by a pilot and as soon thereafter as possible by the quarantine officer. To expedite inspection the following should be ready: Copy of manifests, all certificates of a sanitary nature, bills of health from all

ports, full and accurate crew and passenger lists which together must show the names of every person on board. Vessels may be inspected at anchor or underway as may seem best for each case but no vessel may proceed beyond Cristobal Harbor or Balboa

Basin before being granted pratique.

35. In making the inspection of a vessel the bills of health, clinical records of all cases treated during the voyage, manifests, crew and passenger lists and, when necessary, the ship's log, will be examined. The crew and passengers will be examined, one by one, and checked with the lists. The clinical thermometer and any other recognized method which the quarantine officer may deem necessary may be used. An inspection of the ship for general sanitary conditions will be made and, under certain circumstances, also of the cargo.

36. The captain shall furnish such information regarding the sanitary history of the ship, its crew and passengers, as the quarantine officer may require and when these statements are written into a declaration, it shall be signed by the captain, under oath if necessary. Bills of health, certificates of fumigation and documents of a similar nature will not be taken up by any official of The Panama Canal but the quarantine officer may make comments or endorsements upon them over his signature.

37. The vessel, her personnel, passengers, and pilot shall be considered in quarantine and subject to the orders of the quarantine officer until either conditional or free pratique is given and conditions or instructions written into such conditional pratique shall be binding upon all parties. No vessel in quarantine shall go to a dock without permission of the quarantine officer.

38. Vessels together with their passengers, crew, and cargo will, for quarantine

purposes, be considered as belonging to one of the following classes:

(a) Free from infection—These are vessels that on account of the sanitary condition of the ports of departure or the nature of precautions taken are presumably free

from infection. They will be granted free pratique.

(b) Suspected—These are vessels that on account of the sanitary condition of the ports of departure or on account of failure to enforce the special precautions at such ports may be suspected of carrying quarantinable infection, or whose crew or passengers may be suspected of being in the incubation period of a quarantinable disease. These vessels will be placed in quarantine or will be granted conditional pratique.

(c) Infected—These are vessels that are actually or presumably infected either on account of quarantinable diseases or infection on board or on account of close contact with such infection. These vessels will be placed in quarantine until the

infection is removed or conditional pratique is granted.

# DETENTION OF VESSELS AND PASSENGERS.

39. Quarantine officers must take all reasonable precautions to prevent the introduction of quarantinable diseases and may hold vessels in quarantine when necessary for this purpose. Passengers that may be in the incubation period of a quarantinable disease shall preferably be detained at a quarantine station when detention is necessary.

40. Conditional pratique will be given when in the opinion of the quarantine officer a vessel may transit the Canal or otherwise transact business with reasonable safety to the Canal from quarantinable disease, if certain precautions are taken. It shall be the duty of the quarantine officers to make supplementary inspections and inves-

tigations to see that instructions issued by them are carried out.

41. When detention of persons is considered necessary, it will date from the last possible infection and will vary according to the incubation period of the various diseases which, for purposes of these instructions, are as follows: Cholera, 5 days; yellow fever, 6 days; bubonic plague, 7 days; smallpox, 14 days; typhus fever, 12

days; leprosy, indefinite.

42. If any detained person has a chill, fever, or other symptoms, he should be immediately isolated in a screened apartment. As soon as possible he should be given a complete medical examination, including necessary examination of excreta and blood. Appropriate action to avoid spread of disease shall be taken at once. As soon as a positive diagnosis of quarantinable disease is made, an extension of the quarantine period for contacts shall be enforced if necessary.

43. The Chief Quarantine Officer is authorized to request the assistance of the

Chief of the Medical Clinic, Ancon Hospital, and the Chief of the Board of Health Laboratory to aid in the diagnosis of persons sick in quarantine and to request the removal to Ancon, Colon, or other hospitals, of such patients; if they are suffering from a quarantinable disease they will be held until a sufficient time has elapsed to insure their freedom from infection. This is to be determined by bacteriological examination when necessary.

44. Persons arriving at quarantine suffering from any communicable disease not specified as quarantinable, or developing such diseases while held in quarantine, as well as those exposed to these patients and liable to contract such disease, shall be detained or otherwise disposed of as the Chief Health Officer may direct.

45. When the necessity for detention of passengers has been determined, no one will be discharged until the prescribed detention period has expired, except that in

his discretion the quarantine officer may make the following exceptions:

(a) Passengers in good health wishing to board a vessel leaving a Canal port may

be allowed to do so.

(b) Passengers needing hospital treatment may be transferred to a hospital, together with attendants or members of the patient's family, provided the hospital authorities satisfy the quarantine officer that such persons will be detained and observed as if at the quarantine station.

(c) Passengers, who will go directly to localities considered as noninfectable for the particular disease for which detention is required and who will remain in these

localities until the quarantine period expires.

46. Subsistence or hospital care of crews of vessels or passengers in quarantine shall be at the vessel's expense. These services will be provided at published rate.

47. Bodies of persons who have died of infectious or quarantinable diseases may be passed through quarantine provided they are placed in hermetically sealed coffins, the outside of which have been carefully disinfected and are accompanied by death certificate, and satisfactory evidence that the above-mentioned requirements have been carried out. In the case of the bodies of such persons as may have died of infectious or quarantinable diseases on the voyage or upon arrival at quarantine, the body should be wrapped without preliminary washing in a sheet saturated with a solution of bichloride of mercury (1:500) and should be sealed as above described, buried or cremated.

48. In addition to the general requirements specified above, additional measures are necessary for vessels from infected ports. The treatment of such vessels and passengers will vary according to the nature of the disease in question, and according

to conditions existing in the Canal Zone and the Republic of Panama.

# SPECIAL REGULATIONS FOR VESSELS FROM CHOLERA-INFECTED PORTS.

49. These will be considered as *free from infection* if all precautions as specified in paragraphs 4 to 10 have been observed and no suspicious sickness has appeared since sailing. They will be considered as *suspected*, if all precautions have not been carried out: and as *infected* if cases of cholera have occurred on board. For purposes of diagnosis all cases of suspicious illness and especially of diarrhea should be exam-

ined bacteriologically.

50. Suspected vessels will be treated to insure the sterilization of all food, water, or other agency that may carry cholera, unless this has been previously carried out; and all persons except those who can show that they have not been exposed to infection, will be examined for the detection of cholera carriers, unless such examination has been previously done to the satisfaction of the quarantine officer. Infected vessels will, in addition, be treated to insure the disinfection of living quarters, especially those occupied by the sick. Patients will be removed to an isolation hospital, and the passengers and crew detained, segregated into as small groups as possible and after 24 hours examined for the detection of cholera carriers. If no carriers are found, passengers and crew not directly exposed may be released at once but carriers must be isolated until found negative on 3 consecutive days. Contacts will be held an additional 5 days but may be released after one or more negative examinations of stools. For quarantine purposes any vibrios found in the stools of suspects shall be considered to be the cholera organism until definitely demonstrated to be benign.

# SPECIAL REGULATIONS FOR VESSELS FROM YELLOW FEVER INFECTED PORTS.

51. These will be considered as *free from infection* if all the provisions of paragraphs 12 to 15 have been complied with and if after trapping no yellow fever mosquitoes have been found on board. They will be considered *suspected* if yellow fever mosquitoes are found or if the precautions mentioned have not been carried out; and

infected if yellow fever has occurred on board.

52. Suspected vessels will be fumigated upon arrival for the destruction of mosquitoes unless this has been done to the satisfaction of the quarantine officer and all additional precautions have been taken. Infected vessels will be fumigated after removal of the sick except that this may be omitted if it is evident that the infection was contracted on shore and trapping fails to show the presence of yellow fever mosquitoes.

53. All persons except immunes will be detained to complete 6 days from date of last possible infection, but quarantine officers are authorized to consider in this

connection the immediate destination of passengers (see paragraph 45).

54. When it is necessary to detain members of the crew they will preferably be held on board the vessel which may be permitted to transit the Canal and otherwise transact business if the master or agents have satisfied the quarantine officer that all hands will be held on board until the expiration of the quarantine period. Such persons will be inspected by the quarantine officer not less than once daily.

55. Cases of yellow fever occurring on board ships will be isolated and properly screened, either on board or on shore. Quarantine officers are authorized to hold a vessel in quarantine until such a case may be removed without prejudicing the

patient's chances of recovery.

# REGULATIONS FOR VESSELS FROM PLAGUE-INFECTED PORTS.

56. These will be considered *free from infection* if recent and adequate fumigation for the destruction of rats has been done and all precautions in foreign ports called for in paragraphs 18 to 21 have been carried out. They will be considered as *suspected* if any of these precautions have been omitted, and as *infected* if rat plague exists on board or there are human cases of bubonic plague that may have contracted the disease on board.

57. Suspected vessels will be required to take such measures to prevent rats leaving the ship as may be indicated. Articles of freight that may harbor rats will be fumigated before being discharged. However, the quarantine officer is authorized in his discretion to fumigate such freight after discharge, or to require one or

more fumigations of the vessel during the process of unloading.

58. Infected vessels will be similarly treated after removal of the sick. It is always preferable to discharge such vessels in the open bay and during such discharge to fumigate frequently for the destruction of rats and fleas.

59. Infected vessels will not be allowed to leave ports of the Panama Canal until they have been completely discharged and sufficiently fumigated throughout to assure the elimination of rat and flea infection.

60. Vessels that have accepted freight from badly infected districts may be refused permission to break cargo at ports of the Panama Canal (see paragraph 21).
61. All persons sick of plague shall be detained in quarantine until well, but no

detention of healthy contacts with bubonic plague is necessary.

62. The possibility of the pneumonic form of plague occurring among passengers from infected territory must be considered and the sputum of severe acute respiratory cases should be examined for *Bacillus pestis*. Similarly cases that have died during the voyage of acute respiratory diseases should be considered as possible cases of pneumonic plague. Cases of pneumonic plague should be strictly isolated, the living quarters should be disinfected and contacts should be detained in quarantine 7 days.

63. All vessels calling at plague-infected ports and making the Panama Canal their terminal port shall be funnigated throughout when completely discharged at this port not less than every 6 months. It is strongly recommended that all vessels, regardless of previous ports of call, be funnigated not less than once every 6 months for the purpose of destroying rats. Any vessel not so funnigated for the destruction of rats within the preceding 6 months will be considered "suspected" for purposes

of plague control.

64. All vessels when lying in ports of the Panama Canal or when transiting the Canal should take precautions regarding rat guards, breasting off, et cetera, as prescribed in paragraphs 18 and 19.

in paragraphs to and 17.

# SPECIAL REGULATIONS FOR VESSELS FROM SMALLPOX-INFECTED PORTS.

65. These will be considered *free from infection* if all persons on board are protected from smallpox by having had the disease or by successful vaccination; as *suspected* if any persons are not so protected; and as *infected* if smallpox exists on board.

66. On suspected vessels nonimmune persons will be vaccinated and detained until a reaction appears. Infected vessels will be detained until the patient is removed and his quarters and personal effects have been mechanically cleaned or sterilized. All contacts not presenting certificates of vaccination based upon definite reactions, issued by the quarantine service of the Panama Canal or other acceptable authority, and dated not more than 5 years previously (see paragraph 75) shall be vaccinated and held under observation until a reaction is noted. If vaccination is refused contacts will be held in quarantine 14 days from last possible exposure to the disease.

# SPECIAL REGULATIONS FOR VESSELS FROM TYPHUS-INFECTED PORTS.

67. These will be considered free from infection if passengers and crew are clean and not infested with body lice and the vessel is otherwise in good sanitary condition; suspected if passengers and crew are so infested or the vessel is in poor sanitary con-

dition; and infected if cases of typhus fever exist on board.

68. Suspected vessels may be detained until put in good sanitary condition including the fumigation of such living quarters as may harbor body lice. Passengers and crew may be detained for the purpose of freeing them and their effects from lice The same treatment will be given infected vessels after removal or other vermin. and isolation of the sick, and in addition persons found infested with body lice who have been in direct contact with cases of typhus fever may be detained for 12 days after delousing.

69. Quarantine officers are authorized to take cognizance of the fact that body lice are not common in a continuously hot climate. Care should be taken, however, not to allow vessels or persons to enter and leave a Canal port that may carry the

infection to places where body lice propagate more readily.

#### SPECIAL PRECAUTIONS ON ACCOUNT OF LEPROSY.

70. Vessels arriving at quarantine with leprosy on board shall not be granted free pratique until the leper and his baggage have been removed from the vessel to the quarantine station, but vessels repatriating lepers under proper precautions may

transit the Canal or transact business under a conditional pratique.

71. No alien leper shall be landed, but must be isolated on board and proceed with the ship, the circumstances being noted on the bill of health, or he may e detained at the quarantine station or the leper asylum at the ship's expense until he can be returned to his native country. When isolated on board ship, disinfection should be observed as described in paragraph 30.

## SPECIAL REGULATIONS RELATING TO U. S. NAVAL VESSELS.

72. Vessels of the United States Navy are subject to quarantine inspection upon arrival at a port of the Canal Zone or the ports of Colon and Panama in the Repub-

lic of Panama.

73. The certificates of the medical officers of the United States Navy as to the sanitary history and condition of the vessel and its personnel may be accepted for naval vessels by the quarantine officer boarding the vessel in lieu of an actual inspection.

74. Vessels of the United States Navy having entered the harbors of infected ports, but having held no communication which is liable to convey infection, may be exempted from the disinfection and detention imposed on merchant vessels from

such ports.

### VACCINATION.

75. In order to encourage vaccination and to facilitate the movements of those properly vaccinated the Chief Quarantine Officer is authorized to issue certificates of immunity to smallpox, good for 5 years, based upon the following principles:

(a) Immunity to smallpox can be acquired only by a previous attack of the dis-

ease or by successful vaccination.

(b) Every person who is properly vaccinated with properly prepared and preserved virus will show a local reaction which may be arbitrarily classified as (1) immune reaction, (2) vaccinoid or (3) successful vaccination.

(c) These reactions both indicate the individual's degree of immunity to smallpox

at the time of vaccination and if this is deficient increases it.

(d) An immune reaction indicates that the individual is fully protected; vaccinoid

that he was partially protected and successful vaccination that he was unprotected.

(e) These reactions appear approximately 2 days, 4 days, and 7 days after vaccination and may be distinguished both by the time of their appearance and the character of the reaction.

# DISINFECTION.

76. Clothing, bed linen, bedding, and similar articles that have been in intimate contact with the sick or that may be infected with body lice, fleas, or other vermin should be treated as follows:

(a) Burning—To be used only for articles of little value or when other methods

are not available.

(b) Boiling-Very efficient and wide range of applicability. The articles must be wholly immersed for not less than 10 minutes in water actually boiling (100° C.).

(c) Steam—(1) (Flowing steam, not under pressure), when applied under suitable conditions is an efficient disinfecting agent. The exposure must continue 30 minutes

after the temperature has reached 100°C. (2) Steam under pressure without vacuum— Steam under pressure will sterilize, provided that the process is continued 20 minutes after the pressure reaches 15 pounds per square inch. The air must be expelled from the apparatus at the beginning of the process. If impracticable to obtain the designated pressure, a longer exposure will accomplish the same result. under pressure with vacuum—Steam in a special apparatus with vacuum is the best method of applying steam under pressure, the object of the vacuum apparatus being to expel the air and to promote the penetration of the steam. A preliminary vacuum of at least 15 inches of mercury is obtained, after which live steam is introduced until 10 pounds pressure is obtained and held for 10 minutes.

(d) Immersion in antiseptic solution-Articles should be completely immersed in a solution of carbolic acid, 1 part of acid to 20 of water, for at least 1 hour. Other

solutions of the same antiseptic strength may be used.

77. Steam disinfection, when available, is best for mattresses, etc. When this is not available such articles should be burned if badly infected or soiled. If clean and otherwise in good condition, it may be sufficient to expose them to the weather for 24 hours. Blankets, linen, clothing, dishes, etc., may be used with safety if boiled. Walls, floors, bunks, and compartments where communicable diseases have been quartered should be scrubbed with soap and water after removal of articles to be disinfected.

#### FUMIGATION.

78. Fumigation is done for the destruction of animal life, especially rats, mosquitoes, lice, fleas, and bedbugs, and for this purpose sulphur dioxide (SO2) or hydrocyanic acid gas (HCN) should be used.

79. Sulphur dioxide is generated by burning roll sulphur or flowers of sulphur in shallow iron pots (Dutch ovens) or pans made of heavy galvanized iron. These pans should not be more than 4 inches deep and their diameter should be at least 4 times their depth. It should be ascertained in advance that the amount of sulphur used in each pot will burn out completely within 2 hours.

80. Ignition is best accomplished by means of alcohol, of which about 1 ounce per pot is necessary. To guard against fire each pot should stand in a larger pan containing a little water and they should be distributed about the vessel at a distance from any inflammable material and where they will not move if the vessel should roll.

81. Hydrocyanic acid gas is best generated by mixing sodium cyanide, 1 part with commercial sulphuric acid,  $1\frac{1}{2}$  parts and water 2 parts. The mixture must be made in a container capable of resisting both acids and heat, preferably of wood or earthenware. The right amount of water is first measured into the container and the acid added slowly. Heat is generated by this mixture and into this hot liquid the sodium cyanide is dropped. Containers should have a capacity of at least three times the acid solution used to prevent boiling over when the cyanide is added. The operator must leave immediately unless wearing a gas mask of the Army pattern or other dependable protection.

82. Fumigation for mosquitoes—Mosquitoes are easily killed if the fumigating gas reaches them, but may protect themselves by entering closets or into the folds of clothing or curtains. They may enter any part of the ship open at the time of exposure, especially the living quarters and these should be fumigated simulta-

Preparation—Open all drawers and closets and, if containing clothing, hang the articles loosely about the room. All external openings should be tightly closed and cracks pasted with paper when necessary. Determine size of compartments in cubic feet by actual measurement or by use of the ship's blue prints.

Sulphur—Use 1 pound of sulphur per 1,000 cubic feet. Time of exposure, 1 hour. Hydrocyanic acid gas—Use ½ ounce of sodium cyanide per 1,000 cubic feet. Time

of exposure, 1 hour.

83. Fumigation for rats—Rats are much more difficult to kill than mosquitoes and are able to hide and escape suffocation if collection of cargo or trash are available or if they can find small enclosed spaces such as the limbers, pipe casings, double walls, and similar places not freely open to the fumigating gas. Fumigation for rats must be done simultaneously and must include all parts of the ship that may harbor rats. While the fumigation is in progress a minute inspection must be made of all places not being treated, including the decks, lifeboats, and dunnage of any kind.

Preparation—Completely discharge the vessel, sweep all decks and holds, remove all rubbish, pile loose lumber in a slanting position, raise one limber board in each side in each hold, open each pipe casing at top and bottom and similarly find and open all inclosed spaces, especially double walls in the living quarters and storerooms. If it is necessary to leave any cargo or stores in places to be fumigated, separate the packages to allow circulation of the fumigant.

Sulphur-Use 3 pounds of sulphur per 1,000 cubic feet. Time of exposure, 6 hours. Hydrocyanic acid gas—Use 5 ounces of sodium cyanide per 1,000 cubic feet. Time of exposure, 2 hours. In case vessel is partly loaded, the time of exposure should be doubled without reduction of gas on account of space occupied by cargo. Fully loaded vessels can not be efficiently funigated for rats.

84. Funigation for lice, bedbugs, and fleas—The room should be carefully cleaned

and all clothing and bedding hung about loosely. If an electric fan is available it should be operated during the entire funnigation. Hydrocyanic acid gas in the

strength recommended for rats is superior to sulphur.

85. Caution—Hydrocyanic acid gas being colorless, practically odorless, and rapidly fatal in the strength required to kill rats, should be used for this purpose only when it is possible to send ashore all persons not assisting in the fumigation. No one should be allowed to enter any compartment after cyanide fumigation, whether the compartment in question was fumigated or not, until it has been de-clared safe by the fumigating officer. That the ship is safe can be best determined by a complete inspection of all parts of the vessel, whether fumigated or not, the inspector being protected by an Army gas mask. He should carry with him a cage containing a small animal (4 rat, cat, dog, or bird) that will indicate by its behavior amounts of gas much below the lethal point for man. In amounts prescribed for mosquito fumigation, cyanide gas is not dangerous unless breathed for a considerable time.

86. The form of bill of health required shall be the same as prescribed by the quarantine regulations of the United States. The following form of pratique shall be used:

UNITED STATES OF AMERICA.

THE PANAMA CANAL. HEALTH DEPARTMENT. QUARANTINE SERVICE.

# PRATIOUE FOR VESSELS

	, Port or	. , C. 2.
This is to certify that the		
with the quarantine regulations of The Pana to the health of the Canal Zone or the Republ	ma Canal and will not, in my	opinion, be dangerous to
This vessel is hereby granted conditional pr		
		Quarantine Officer.

### GENERAL.

87. Quarantine officers are authorized to issue to outgoing vessels such sanitary statements as may be required for the proper clearance of such vessels.

88. The United States Quarantine Regulations of 1920 shall be taken as a guide

for all subjects not considered in these instructions.

89. The Chief Quarantine Officer shall report to the Chief Health Officer and to the Governor of The Panama Canal all violations of these instructions or of the Executive Order of March 31, 1920, upon which they are based.

90. Section XV of Executive Order of March 31, 1920 (printed as Governor's

circular 601-110), reads as follows:

"Any person failing to observe the requirements of these regulations or of any instructions issued by the Governor of The Panama Canal in conformity with these regulations, shall be punished by a fine not exceeding five hundred dollars or by imprisonment in jail not exceeding ninety days, or both such fine and imprisonment at the discretion of the Court, in conformity with the Act of Congress authorizing the establishment of these regulations."

CHESTER HARDING,

# Ships at Canal Repair Shops.

The following vessels were at the Canal shops for repairs during the week ending Monday, August 9:

Balboa shops—U. S. submarines R-23 and R-26, periodical overhaul in dry dock; steamship Coalinga, periodic repairs, about 8 days, cleaning and painting bottom; U. S. S. Eagle No. 14, boiler and main turbine repairs; Adria, work on machinery and boilers; Marne, rebuilding; Orteric, repairs to hull, damaged in locks. The steamships La Habra, Westward Ho, Diablo, Craincreek, and Loretta left the shops during the week.

Cristobal shops—Steamships General Hodges, Panama, Ancon, General Gorgas, General Ernst, and General Goethals, miscellaneous repairs to engine, deck, and steward departments; tug St. Teath, renewed boiler stays; Eastern Pilot, rebore h. p. cylinder; tug St. Mabyn, repairs to dynamo generator; Newport, repair dynamo engine winches and boilers; Urubamba, electric weld boilers; Walter Hardcastle, electric weld boiler, jack up furnace; Lake Fitch, Ruapehu, Tres Hermanos, Effingham, Peru, and Salvador, minor repairs.

# Prices of Miscellaneous Supplies.

The following are prices to individuals and companies, including the 25 per cent surcharge, effective August 1, 1920:

Brass, sheet. Lb. Brooze, Tobin. Cement, at Panama:  Departments of United States Government (including surcharge and bags).  Bag Individuals and companies (including surcharge and bags).  Bag Credit for empty bags returned.  Departments of United States Government (including surcharge and bags).  Bag Credit for empty bags returned.  Departments of United States Government (including surcharge and bags).  Bag Individuals and companies (including surcharge and bags).  Bag Individuals and companies (including surcharge and bags).  Bag Credit for empty bags returned.  Bag Individuals and companies (including surcharge and bags).  Bag Credit for empty bags returned.  Cwt. Covet.  Copper, bar Gasoline, in drums (inctor grade).  Lead, pig. Lead, sheet.  Lead, pig. Lib.  Lib. Lumber, ceiling, siding, and flooring, 1" by 6".  Lumber, ceiling, siding, and flooring, 1" by 4".  Lumber, yellow pine or fir, except ceiling.  Mft. B. M. 14  Lumber, yellow pine or fir, except ceiling.  Mft. B. M. 16  Lib. Nuts, iron, machine, hexagon  Nuts, iron, machine, square.  Lib. Natis, common wire.  Lib. Natis, common wire.  Lib. Natis, common wire.  Lib. Dakum, navy, unspun.  Lib. Dakum, navy, unspun.  Lib. Dakum, navy, spun.  Lib. Dakum, navy, spun.  Lib. Commercial vessels and individuals and companies—barrel of 42 gallons  Bibl. Commercial vessels and individuals and companies—barrel of 42 gallons  Bibl. Commercial vessels and individuals and companies—barrel of 42 gallons  Commercial vessels and individuals and companies—barrel of 42 gallons  Commercial vessels and individuals and companies—barrel of 42 gallons  Commercial vessels and individuals and companies—barrel of 42 gallons  Commercial vessels and individuals and companies—barrel of 42 gallons  Coli, quinder, dark, marine.  Cil, quinder, dark, marine.  Cil, quinder, dark, marine.  Cil, quinder, dark, marine.  Cil, quinder, dark, marine.  Cil, quinder, dark, marine.  Cil, quinder, dark, marine.  Cil, quinder, dark, marine.  Cil, quinder, dark, marine.  Cil, quinder, dark, mar	Commodities.	Unit.	Price
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assoline, in drums (motor grade).  assoline, in drums (motor grade).  assoline, in drums (motor grade).  assoline, in drums (motor grade).  assoline, in drums (motor grade).  Gal.  Lab.  Lab.  Lab.  Lab.  Mft. B. M.  Lab.  Lab.  Mft. B. M.  Mft. B. M.  Lab.  Lab.  Lab.  Lab.  Mft. B. M.  Mft. B. M.  Lab.	Credit for empty bags returned		
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ead, sheet. Lb. acad, pig. Lb. Lb. Lb. Lb. Lb. Lb. Lb. Lb. Lb. Lb.	opper, bar		
pumber, ceiling, siding, and flooring, 1" by 6".  Imber, gliow pine or fir, except ceiling.  Mft. B. M.  10  Letal, yellow pine or fir, except ceiling.  Lb.  Lts, iron, machine, hexagon.  Lts, iron, machine, hexagon.  Lts, iron, machine, square.  Lis, galvanized.  Lb.  Lakum, navy, snspun.  Lis, fuel, at Cristobal and Balboa—in bulk:  United States Army and Navy, and vessels operated by same—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  United States Army and Navy, and vessels operated by same—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  United States Army and Navy, and vessels operated by same—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallon	asoline, in drums (motor grade)		
mmber, vellow pine or fir, except ceiling.  Mft. B. M. 16  telal, yellow  uts, iron, machine, hexagon  uts, iron, machine, hexagon  uts, iron, machine, square.  ails, common wire.  Lb.  Lb.  lab.  Lb.  Lb.  Lb.  Lb.  Lb.  Lb.  Lb.	ad, sheet.		
mmber, vellow pine or fir, except ceiling.  Mft. B. M. 16  telal, yellow  uts, iron, machine, hexagon  uts, iron, machine, hexagon  uts, iron, machine, square.  ails, common wire.  Lb.  Lb.  lab.  Lb.  Lb.  Lb.  Lb.  Lb.  Lb.  Lb.	3d, pig		
miber, vellow pine or fir, except ceiling.  Mft. B. M. 16 tela, yellow the or fir, except ceiling.  Mft. B. M. 16 tela, yellow pine or fir, except ceiling.  Lb. tts, iron, machine, hexagon.  Lb. tts, iron, machine, square.  ails, common wire.  Lb. ts, iron, machine, square.  ails, galvanized.  klum, navy, spun.  Ltb. ltb. ltb. ltb. ltb. ltb. ltb. ltb. l	imber, ceiling, siding, and flooring, 1" by 6".		118.
tean, yellow uts, iron, machine, hexagon	imber, nooring, 1" by 3" and 1" by 4"		143.
tean, yellow uts, iron, machine, hexagon	imper, yellow pine or hr, except ceiling.		100
uts, iron, machine, square alis, common wire.  Lib. alis, galvanized. Lib. kum, navy, ynnyn. Lib. kum, navy, unspun. Lib. Lib. Lith, at Cristobal and Balboa—in bulk: Lunited States Army and Navy, and vessels operated by same—barrel of 42 gallons. Lib. Lib. Lib. Lib. Lib. Lib. Lib. Lib	etal, yellow		. :
ails, common wire.  Lib.  ib.	uts, iron, machine, hexagon		
ails, galvanized.  akum, navy, spun.  Lb.  akum, navy, unspun.  Lib.  Lkum, navy, unspun.  Lib.  Lib.  Lkum, navy, unspun.  Lib.  Li	uts, iron, machine, square		.2
akum, navy, spun.  akum, navy, unspun.  akum, navy, unspun.  li, fuel, at Cristobal and Balboa—in bulk:  United States Army and Navy, and vessels operated by same—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl.  Commercial vessels and individuals and companies—barre	alls, common wire		.(
akum, navy, unspun.   Lb.	alis, galvanized		1
United States Army and Navy, and vessels operated by same—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. United States Army and Navy, and vessels operated by same—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and individuals and companies—barrel of 42 gallons.  Bbl. Commercial vessels and ind	kum, navy, spun		
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Commercial vessels and individuals and companies—barrel of 42 gallons   Bbl.	I, fuel, at Cristopal and Balboa—in bulk:	DII	
II, Itel, at Cristobal and Balboa—in drums and barrels: United States Army and Navy, and vessels operated by same—barrel of 42 gallons Bbl. Gommercial vessels and individuals and companies—barrel of 42 gallons. St. greases, and lubricants: Oil, air compresser cylinder. Oil, ammonia cylinder. Oil, burning. Gal. Oil, cylinder, dark, marine. Gal. Oil, cylinder, dark, marine. Gal. Oil, cylinder, dark, marine. Gal. Oil, cigine dynamo. Gal. Oil, engine, in tins. Gal. Oil, engine, in threls. Gal. Oil, gas engine, in barrels. Gal. Oil, gas engine, in barrels, heavy. Gal. Oil, gas engine, in cases, heavy. Gal. Oil, gas engine, in drums. Gal. Oil, gas engine, in cases, heavy. Gal. Oil, gas engine, in tins, medium. Gal. Oil, kerosene, in tins (cases)	United States Army and Navy, and vessels operated by same—barrel of 42 gallons		3.
United States Army and Navy, and vessels operated by same—barrel of 42 gallons   Bbl.   Commercial vessels and individuals and companies—barrel of 42 gallons   Bbl.   Bbl.   Gal.   Gal.   Gil.   air compresser cylinder   Gal.   Gil.   burning   Gal.   Gil.   burning   Gal.   Gil.   cylinder, dark, marine   Gal.   Gil.   ciplinder, dark, marine   Gal.    Commercial vessels and individuals and companies—barrel of 42 gallons	Bpl.	3.	
Commercial vessels and individuals and companies—barrel of 42 gallons   Bbl.	it, fuer, at Cristopal and Balboa—in drums and barrels:	DII	
	United States Army and Navy, and vessels operated by same—barrel of 42 gallons		3.
Gil, air compresser cylinder       Gal.         Oil, ammonia cylinder       Gal.         Oil, burning.       Gal.         Oil, cylinder, dark, marine.       Gal.         Oil, cylinder, dark, marine.       Gal.         Oil, ice machine, steam.       Gal.         Oil, engine dynamo.       Gal.         Oil, engine, in tins.       Gal.         Oil, engine, in barrels.       Gal.         Oil, gas engine, extra heavy—in drums.       Gal.         Oil, gas engine, in barrels, heavy.       Gal.         Oil, gas engine, drums, medium       Gal.         Oil, kerosene, in drums       Gal.         Oil, kerosene, in thus (2888)       Gal.	Commercial vessels and individuals and companies—barrel of 42 gallons	Bbl.	3.
Oil, ammonia cylinder.       Gal.         Oil, burning.       Gal.         Oil, cylinder, dark, marine.       Gal.         Oil, cylinder, dark, marine.       Gal.         Oil, ice machine, steam.       Gal.         Oil, cogine dynamo       Gal.         Oil, engine, in tins.       Gal.         Oil, engine, in the barrels.       Gal.         Oil, gas engine, in barrels, heavy—in drums.       Gal.         Oil, gas engine, in cases, heavy.       Gal.         Oil, gas engine, drums, medium       Gal.         Oil, kerosene, in drums       Gal.         Oil, kerosene, in drums       Gal.         Oil, kerosene, in drums       Gal.	as, greases, and lubricants:		
Oil, burning.   Gal.     Oil, cylinder, dark, marine.   Gal.     Oil, cylinder, dark, marine.   Gal.     Oil, lee machine, steam   Gal.     Oil, lee machine, steam   Gal.     Oil, engine dynamo   Gal.     Oil, engine, in tins.   Gal.     Oil, engine, in barrels   Gal.     Oil, gas engine, extra heavy—in drums   Gal.     Oil, gas engine, extra heavy   Gal.     Oil, gas engine, in barrels, heavy   Gal.     Oil, gas engine, drums, medium   Gal.     Oil, kerosene, in tins (cases)   Gal.	Oil, air compresser cylinder		
Oil, cylinder, dark, marine.       Gal.         Oil, cylinder, dark, marine.       Gal.         Oil, iee machine, steam.       Gal.         Oil, engine dynamo.       Gal.         Oil, engine, in tins.       Gal.         Oil, gas engine, in barrels.       Gal.         Oil, gas engine, extra heavy—in drums.       Gal.         Oil, gas engine, in barrels, heavy.       Gal.         Oil, gas engine, in cases, heavy.       Gal.         Oil, gas engine, drums, medium.       Gal.         Oil, kerosene, in drums.       Gal.         Oil, kerosene, in tins (cases)       Gal.	Oil, ammonia cylinder.		
Oil, cylinder, dark, marine   Gal.     Oil, iee machine, steam   Gal.     Oil, engine dynamo   Gal.     Oil, engine, in tins   Gal.     Oil, engine, in tins   Gal.     Oil, engine, in barrels   Gal.     Oil, gas engine, extra heavy—in drums   Gal.     Oil, gas engine, extra heavy   Gal.     Oil, gas engine, in cases, heavy   Gal.     Oil, gas engine, in cases, heavy   Gal.     Oil, gas engine, in cases, heavy   Gal.     Oil, kerosene, in tins (cases)   Gal.     Oil, kerosene, in tins (cases)   Gal.     Oil, kerosene, in tins (cases)   Gal.	Oil, burning.		1.
Gal   Gal	Oil, cynlinder, dark, marine		3,
Oil, cogine dynamo	Oil to meeting a marine		1.
Oil, engine, in tins.   Gal.     Oil, engine, in barrels.   Gal.     Oil, gas engine, extra heavy—in drums.   Gal.     Oil, gas engine, extra heavy.   Gal.     Oil, gas engine, in barrels, heavy.   Gal.     Oil, gas engine, in cases, heavy.   Gal.     Oil, gas engine, drums, medium   Gal.     Oil, kerosene, in drums.   Gal.     Oil, kerosene, in tins (cases)   Gal.     Oil, kerosene, in tins (cases)   Gal.	Oil, ree macmie, steam.		I.
Oil, engine, in barrels   Gal.     Oil, gas engine, extra heavy—in drums   Gal.     Oil, gas engine, in barrels, heavy   Gal.     Oil, gas engine, in cases, heavy   Gal.     Oil, gas engine, drums, medium   Gal.     Oil, kerosene, in drums   Gal.     Oil, kerosene, in time (cases)   Gal.     Oil, kerosene, in time (cases)   Gal.	Oil, engine dynamo		
Oil, gas engine, extra heavy—in drums       Gal.         Oil, gas engine, in barrels, heavy.       Gal.         Oil, gas engine, drums, medium.       Gal.         Oil, kerosene, in drums.       Gal.         Oil, kerosene, in ing (cases)       Gal.	Oil, eagine, in tins.		
Oil, gas engine, in eases, heavy.  Oil, gas engine, in cases, heavy.  Oil, gas engine, drums, medium  Oil, kerosene, in drums.  Gal.  Oil, kerosene, in tins (cases)  Gal	Oil, engine, in parreis		
Oil, gas engine, in cases, heavy. Gal. Oil, gas engine, drums, medium. Gal. Oil, kerosene, in drums. Gal. Oil, kerosene, in tins (cases). Gal.	Oil, gas engine, extra neavy—in drums.		
Oil, kerosene, in drums. Oil, kerosene, in ins (cases) Gal.	Oil, gas engine, in parreis, neavy.		
Oil, kerosene, in drums Gal. Oil, kerosene, in tins (cases) Gal.	Oil, gas engine, in cases, neavy		4
Utl. kerosene in tins (cases)	Oil bareage : deurs, medium.		;
Oil Broad heiled	Oil kerosene, in drums.		. 3
	Oil lineard heiled		
Oil lineard, boiled	Oil, linseed, boiled	Gal.	2.
Oil, linseed, raw	Oh hused, taw.		2.
Oil, locomotive engine.	Oil lord		9.
Oil, lard	Oil parties		2.

Commodities.	Unit.	Price.
Oils, greases, and lubricants—Continued:	~ .	1
Oil, marine engine	Gal.	\$0.625
Oil, marine engine	Gal.	.44
Oil, marine engine	Gal.	.75
Oil, marine engine	Gal.	1.03
Oil, mineral scal. Oil, monliquid.	Lb.	.00
Oil, stationary engine.	Gal.	.49
Oil, sperm	Gal.	2.87
Oil, signal	Gal.	1.37
Oil, valve	Gal.	.97
Oil, ear	Gal.	.3
Grease, black, gear	Lb.	11
Grease, yellow, cup, No. 3.	Lb.	.1
Grease, yellow, cup, No. 5.	Lb.	,1
Grease, rod, special	Lb.	.22
Grease, tunnel bearing	Lb.	.21
Tallow	Lb.	.22
Turpentine	Gal.	2.5
Turpentine substitute	Gal.	.1
	Lb. Lb.	1.1
aint, lead, white, dry. aint, lead, white, in oil	Lb.	17
aint, read, white, dry	Lb.	22
aint, zine, white, in oil	Lb.	.1
aint, zinc, 35 per cent in oil	Lb.	i
	Lb.	l i
tope, Manila, { "diameter ope, Manila, { "diam	C. ft.	.6
ope, Manila, ‡" diameter	C. ft.	1.5
ope, Manila, ½" diameter	C. ft.	2.5
tope, Manila, [§] " diameter	C. ft.	4.0
Rope, Mania, I' diameter	C. ft.	4.8
ope, Manila, ‡" diameter	C. ft.	7.0
OPC. Wahia. I diameter	C. ft.	8.7
tope, Manila, 1 }" diameter.	C. ft.	12.5
ope, Manila, 1½" diameter ope, Manila, 1½" diameter	C. ft.	19.6
Cope, Manila, 17 diameter.	C. ft.	26.8
ope, Manila, 2" diameter.	C. ft.	46.8
Rope, Manila, 21" diameter Rope, Manila, 3" diameter	C. ft.	76.2
Rope, Manila, 3½" diameter	C. ft.	91.2
ope, Manila, 4" diameter.	C. ft. C. ft.	111.4
oap, laundry	Lb.	.17
oda, ash	Lb.	.0.
teel, bar	Lb.	.00
teel, spring.	Lb.	.2
teel, cold, round (rolled).	Lb.	.20
teel, sheet	Lb.	.00
teel, structural (angles, beams, etc.)	Lb.	.00
in, block	Lb.	,79
in, banca,	Lb.	.7
in, sheet	Lb.	.22
Vashers, cut	Lb.	.12
Vaste, colored	Lb.	:26
Vaste, white	Lb.	.20
inc, boiler plate, \$" by 6" by 12"	Lb.	.13

# Weather Notes for July, 1920.

The rainfall for the month was above normal everywhere except at Cape Mala, Balboa, Balboa Heights, Rio Grande, and Porto Bello, being unusually heavy over the upper Chagres River. Totals in the Canal Zone and vicinity ranged from 6.18 inches at Balboa Heights to 24.63 inches at the Chilibrillo station. Bocas del Toro recorded 33.13 inches. The greatest amount of rainfall recorded on any one day was 5.64 inches, at Vigia on the 16th.

The estimated rainfall over the Gatun Lake watershed was 15.70 inches, compared with a 10-year mean of 11.37 inches; over the Chagres River basin above Alhajuela

it was 19.19 inches, compared with a 19-year mean of 14.86 inches.

The atmospheric pressure and daytime cloudiness were slightly above the normal, while the air temperature was above normal on both coasts, but slightly below normal over the interior. The relative humidity and surface temperature of the sea were approximately normal on the Pacific Coast and slightly below normal on the Atlantic. The wind movement was slightly above normal at Sosa Hill, Pedro Miguel, Gamboa, and Colon, and slightly below normal at Balboa Heights and Gatun. The evaporation was approximately normal everywhere except over the lake surface at Gatun, where it was considerably below the average.

The number of light and dense fogs observed at interior stations was less than usually occur during the month of July. All fogs lifted or were dissipated by 8.30

a. m.

Seismic tremors were recorded on the 1st, 16th, and 19th.

Gatun lake hydrology—Mean elevation of Gatun Lake was 84.16 feet; maximum 85.67 feet, on the 31st; minimum 82.79 feet on the 3d; evaporation from Gatun lake surface was 3.335 inches; rainfall at Gatun lake drainage basin, 15.70 inches; total yield of Gatun Lake watershed, 7.21 inches on the watershed. The total yield amounted to 46 per cent of the rainfall.

Climatological conditions in the three sections are summarized in the following

table:

	Temperature.			_		Prec	ipitatio	Wind.								
Stations.	Pressure (reduced to mean of 24 hours).	Mean.	Maximum.	Date.	Minimum.	Date.	Man volotim	<u> </u>	Total inches.	Station average.	Days with .01 inch or more.	Total move- ment (miles).	Prevailing direction.	Maximum velocity in miles.	Direction.	Date.
Balboa																
Heights			93 88 2 0	July 11	73 71	July July July *July	5 8	6.3	6.18 17.58 14.71 15.26	7.63 16.00 10.24 11.91	23 24	4,398 7,030 3,400 4,195	W. N.E.	26 31 26 23		July 31 July 17 July 24 July 23

^{*}And other dates.

# Passenger Rates on Panama Railroad Liners to Colombian Ports.

The following passenger rates for first-class accommodations have been established by the Panama Railroad Steamship Line for its service from Cristobal to Cartagena and Puerto Colombia and return:

From Cristobal to Cartagena, \$21; between Cartagena and Puerto Colombia, \$17; between Cristobal and Puerto Colombia, \$40. Passengers from Cartagena for Cristobal, via Puerto Colombia, pay \$17 for transportation from Cartagena to Puerto Colombia and \$40 from Puerto Colombia to Cristobal, plus \$5 a day for their maintenance on board the steamer while delayed at Puerto Colombia. In the event of a sailing from Cartagena to Cristobal direct, the \$21 rate applies.

The Gen. Geo. W. Goethals is due to sail from Cristobal for Cartagena and Puerto Colombia on August 12, and the Colon about August 22.

### Automobiles Licensed in Panama and the Canal Zone.

The total number of automobiles licensed to operate in the Canal Zone at present is 1,671. Of these, 604 are owned in the Republic of Panama and 1,067 in the Canal Zone. Percentages of ownership are 64 in the Canal Zone and 36 in Panama. Of the 1,067 owned in the Canal Zone, 598 belong to the Government, including the Army and the Navy, and 469 to individuals. The latter figure includes 416 personal and 53 commercial cars. Of the automobiles owned in Panama, 132 are personal cars, 453 commercial, and 19 official.

A statement issued by the Bureau of Foreign and Domestic Commerce of the Department of Commerce, covering importations of automobiles into Central America during the 7 fiscal years ending with that of 1919 shows 1,194 imported into Panama, including the Canal Zone, and 1,193 into all other Central American countries in the same time, distributed as follows: Costa Rica, 366; Guatemala, 186; Honduras, 166; British Honduras, 25; Nicaragua, 133; and Salvador, 317.

## Postal and Cable Addresses of The Panama Canal.

The postal address is, "The Panama Canal, Balboa Heights, Canal Zone," or "The Panama Canal, Washington, D. C."

Mails for ships passing through the Canal or touching at either of the terminal ports should be addressed to "Cristobal, Canal Zone."

The cable address of The Panama Canal, on the Isthmus, is "Pancanal, Panama;' in the United States, "Pancanal, Washington."

# Additional Rooms for Patrons of the Aspinwall.

The lower floor of the annex of the Hotel Aspinwall at Taboga is being remodeled for the accommodation of more patrons. The employees have been moved to other quarters, and the floor will be partitioned into 8 rooms for families. No change will be made for the present on the second floor, which has been used by guests for a number of years. A covered boardwalk is to be constructed to connect the annex and the main building.

The Aspinwall is filled to about 75 per cent of its capacity throughout the week, and the week-end patronage has been taking all available

rooms.

### Civil Service Examinations.

The following examinations are announced by the United States Civil Service Commission. Bulletins giving details of the examinations for positions for which there are likely to be a number of qualified persons on the Isthmus are posted at Canal post offices and clubhouses. In cases where such announcements are not posted, persons interested may obtain data on application to the Board of Civil Service Examiners, Balboa Heights (telephone 286):

Electric draftsman, Office of Chief of Engineers, War Department (male and female); Grade 1, \$1,200 to \$1,500 a year; grade 2, \$1,500 to \$1,800 a year; grade 3, \$1,800 to \$2,400 a year; No. 183-amended; October 1, 1920; form 1312; age, 18 years and over.*

Assistant biologist (qualified in bird migration); (male and female); \$1,800 a year; No. 447; August

31, 1920; form 2118; age, 21 years but not 40 years.* Assistant director of statistics (male and female); \$5,000 to \$6,000 a year; No. 443; August 31, 1920; form 1312; age, 25 years but not 50 years.*

Assistant in the Office of Information (male and female); \$1,800 to \$2,760 a year; No. 441; August 31, 1920; form 2118; age, under 45 years.* Assistant in poult y and egg handling (male and female); \$1,620 to \$2,400 a year; No. 435; August

24, 1920; form 2118; age, under 45 years.

Associate in clinical psychiatry and psychotherapy (male and female); \$2,500 a year; No. 438; August 24, 1920; form 2118; age. 25 years but not 35 years.*

Automobile mechanic's helper (male and female); 41 cents an hour; No. 413-amended; August 3,

Examiner of claims, Ordnance Department at Large, No. 374-supplemental, scheduled to be held July 20, 1920, has been canceled and will not be held.

Senior structural engineer, grade 1, \$3,000 to \$4,000 a year; Interstate Commission; No. 504-amended, supplemental; has been canceled. Engineer (male and female); \$2,400 a year; No. 2129-amended; December 1, 1920; form 1312, age, 25 years.*

Assistant engineer (male and female); \$1,800 to \$2,340 a year; December 1, 1920; form 1312; age, 25 years.*

Junior engineer (male and female); \$1,440 to \$1,740 a year; No. 2129-amended; December 1, 1920;

Jumor engineer (male and telliate), \$1,440 to \$1,740 d year, No. 436; October 1, 1920; form 1312;

Assistant teacher (male and female); \$1,400 to \$1,800 a year; No. 436; October 1, 1920; form 1312;

Assistant teacher (male and female); \$1,400 to \$1,800 a year; No. 436; October 1, 1920; form 1312; age, within reasonable age limits.*

Girls' athletic director (Indian Scrvice); (male and female); \$900 to \$1,000 a year; No. 437; August 24, 1920; form 1312; age, 21 years but not 45 years.*

Pharmacologist (male and female); \$3,000 a year; No. 446; August 31, 1920; form 2118; age, 25 years but not 45 years.*

Superintendent of field seed distribution (male and female); \$2,160 a year; No. 434; August 24, 1920; form 2118; age, under 45 years.*

Teacher (Ordnance Department at Large); (male and female); \$60 to \$140 a month; No. 429; August 25, 1920; form 1312; age, within reasonable age limits.

Training officer (male and female); \$2,400 to \$3,000 a year; No. 433-amended; form 2118; age, 24 years, but not 50 years.†

Training officer (male and female); \$2,400 to \$3,000 a year; No. 433-amended; form 2118; age, 24 years but not 50 years.†

Training assistant (male and female); \$1,500 to \$2,400 a year; No. 433-amended; form 2118; age, 24 years but not 50 years.†

Placement officer (male and female); \$2,400 to \$3,000 a year; No. 433-amended; form 2118; age, 24 years but not 50 years.†

Placement assistant (male and female); \$1,500 to \$2,400 a year; No. 433-amended; form 2118; age, 24 years but not 50 years.†

District medical officer (male and female); \$1,800 to \$3,000 a year; No. 433-amended; form 2118; age, 25 years but not 65 years.†

Assistant medical officer (male and female); \$1,800 to \$2,750 a year; No. 433-amended; form 2118; age, 25 years but not 65 years.†

age, 25 years but not 65 years,†

X-ray technician (male anf female); \$840 to \$1,200 a year; No. 431; form 1800; August 31, 1920;

X-ray technician (male ant temale); \$840 to \$1,200 a year; No. 431; form 1800; August 31, 1920; age, 20 years but not 40 years,*
Director of traffic (male and female); \$2,200 to \$2,600 a year; No. 453; form 1312; September 7, 1920; age, 25 years and over,*
Railway mail clerk; No. 307-supplemental; to be held August 11, 1920; entrance salary has been increased from \$1,300 to \$1,600 a year.
What examiner (food and drugs) (male and female); \$1,600 a year; No. 461; form 1312; September 22, 1920; age, 20 years but not 45 years.
Instrumentman (male and female); \$5.20 to \$8.40 a day; No. 465; form 1312; September 7, 1920; age, 20 years and over.*

age, 22 years and over.*

Plumber's assistant (male and female); \$780 a year; No. 468; form 1800; September 14, 1920; age, 18 years and over.

age, 18 years and over.* Radio operator (male and female); \$960 to \$1,200 a year with \$1 per diem for subsistence; No. 457; form 1312; September 7, 1920; age, 21 years but not 40 years.* Linotype machinist (male and female); 80 cents an hour; No. 451; forms 304 and 1745; September 8, 1920; age, 20 years and over.
Building estimator (male and female); \$1,800 to \$2,000 a year; No. 454; form 1312; September 7, 1920; age, 25 years but not 50 years.*

*Nonassemb ed. Date given for nonassembled examinations is the last day for filing applications and they must be in the hands of the Commission at Washington prior to the hour of closing business on that day.

tNonassembled. Applications will be received at any time until further notice.

#### Deceased Employee.

The estate of the following deceased employee of The Panama Canal is now in process of settlement, and any claims against this estate, or any information which might lead to the location of heirs, or to the recovery of property, bank deposits, postal savings or postal money order deposits, or any other moneys due him, should be presented at the office of the Administrator of Estates at once in order that the estate may be settled as soon as possible. All claims should be itemized, sworn to before a notary public, or other public officer having a seal, and submitted in duplicate. This name will be published but once:

Name.	Check No.	Native of—	lsthmian residence.	Employed by-	Date of death.
Ralph D. Ramp	4715	United States	Mount Hope	Supply Department	July 29, 1920.

### Official Circulars.

#### Steamboat Inspection Service.—Boiler Washouts on Floating Equipment of The Panama Canal and Panama Railroad Company.

THE PANAMA CANAL, EXECUTIVE OFFICE, Balboa Heights, C. Z., July 31, 1920.

CIRCULAR No. 644-6:

1. All boilers of Scotch Marine type in condensing plants of The Panama Canal and Panama Railroad Company, inspected by the Board of Local Inspectors in accordance with Circular No. 644, shall be thoroughly washed out not less fre-

044, shall be thoroughly washed out not less frequently than once in every 30 days.

2. All water tube marine boilers in condensing plants of The Panama Canal and Panama Railroad Company, inspected by the Board of Local Inspectors, shall be thoroughly washed out not less frequently than once in every 14 days.

3. In special instances, the Board of Local Inspectors may, at its discretion, and upon request of the head of department or division, extend these

of the head of department or division, extend these

periods of time.

4. Reports of boiler washouts shall be made on form 1588-1, Boiler Inspection Service, Washout Card for Marine Equipment, the original to be forwarded to the Board of Local Inspectors and copy to the head of division concerned, upon the completion of washout and again raising steam in the boiler.

CHESTER HARDING, Governor.

## Absence from Quarters of Employees Stayind at Hotel Aspinwall.

THE PANAMA CANAL, SUPPLY DEPARTMENT BALBOA HEIGHTS, C. Z., July 29, 1920.

To all district quartermasters-Families of em-To all aistrict quartermasters—ramines of employees who are staying at the Hotel Aspinwall, Taboga, while the employee is on active duty, will not have absent time from regular quarters charged against the 120-day allowance for the service year. This will also apply to commuters, but if repulation is a prescribed between but if employee is on regularly authorized leave of absence in excess of 10 days and lives at Taboga, the time absent will be charged against his annual allowance.

R. K. Morris, Chief Quartermaster.

Approved: CHESTER HARDING, Governor,

# Acting Local Agent, Panama. PANAMA RAILROAD COMPANY,

OFFICE OF THE SUPERINTENDENT, BALBOA HEIGHTS, C. Z., August 7, 1920. To all concerned—Effective August 1, 1920.

To all concerned—Effective August 6, and during the absence on leave of Mr. A. B. Goodenow, Mr. E. Arosemena is appointed Acting Local Agent, Panama.

R. BEVERLEY. Assistant to Superintendent.

Approved: S. W. HEALD, Superintendent.

### Acting Chief Clerk, Mechanical Division.

THE PANAMA CANAL, MECHANICAL DIVISION. BALBOA, C. Z., July 19, 1920.

Office Bulletin No. 2:

- Since July 12, Mr. F. L. Maney has been performing the duties of Chief Clerk and he will continue as Acting Chief Clerk during the 4 months' absence on leave of Mr. R. H. Adams.

G. S. TOWER. Mechanical Engineer.

Approved: E. G. KINTNER, Superintendent.

### Sale of Equipment on Hand at the Old Power and Refrigerating Plant, Commissary Division, Cristobal.

Sealed bids will be received in the office of the Chief Quartermaster. The Panama Canal, Bal-boa Heights, C. Z., up to 10.30 a. m., August 25, 1920, and then opened for the purchase of various 1920, and then opened for the purchase of various ice manufacturing machinery, electric generators, pumps, etc., on hand at the old power and refrigerating plant, Commissary Division, Cristobal. Form of proposal may be had upon application to the office of the Chief Quartermaster, Balboa Heights, or the General Manager, Commissary Division, Cristobal. The Panama Canal reserves the right to reject any or all bids.

### Cable Notice.

Western Union advises that the rate to Tahiti Island via British Pacific is now 10 cents per word more than via British Pacific as quoted in the tariff book.

#### Misdirected Letters.

BALBOA HEIGHTS, C. Z., August 10, 1920. The following insufficiently addressed mail matter has been received in the office of the Director of Posts and may be obtained upon request of the addressees. Requests for forwarding may be made by telephone, calling No. 182,

Gray, Capt. Franklin Handloff, S. H., Box 841

Heenan, James Howard, Ray Jerome, P. F.

Balboa:
Alexander, Mrs. Addie
Barnes, Fred M., Box
1078
Burrowes, S., Box 928
Eurrowes, S., Box 928
Carlon, C. C.
Carter, Omar L.
Clarke, Laurence
Corradi, O.
Cristol, J. K., Box 1056
Cruz, Max de la
Cunliffe, Charles
Dickinson, Mrs. E.,
Box 234
Douglas, Miss Beatrice
Drunmond, H. H.
Foster, Mrs. C., Box 339
Frey, R. L.
Galliami, Miss Irma
Gonzalez, Graciela
Gray, Capt. Franklin
Gray, Capt. Franklin
Sembnos, D., Box 46
Eurhore, Elmonor, D., Box 46
Eurhore, Elmonor, D., Box 46
Eurhore, Elmonor, D., Box 46
Eurhore, Elmonor, D., Box 46
Eurhore, Florence
Kirchheiner, Mrs. H. E.
Ogden, Albert
Patterson, J. A., Box 281
Peabody, Daisy H.
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Small, Athelston Tobin, Miss Jane, Box 363

Weekes, Chas. Evans. Woodard, L. P., Box 325

### Rainfall from July 1 to July 31, Inclusive.

STATIONS.	Maximum in 1 day.	Date.	Total.
Pacific section-	Ins.		Ins.
Balboa	1 28	7	6.31
Balboa Heights	1.38	7	6.18
Miraflores	1.82	10	11.64
Pedro Miguel	1.50	25	11 15
Rio Grande	1 54	20	9.72
Central section-			
*Culebra	1 63	20	10 79
*Camacho	1.75	25	11.13
Empire	1.50	25	11 18
Gamboa	2 40	25	14 71
*Juan Mina	4 16	16	20 85
Alhajuela	4 81	16	20.83
•Vigia	5.64	16	20 39
Darien	2.50	16	16 51
*Trinidad	1.68	17	10 08
*Monte Lirio	2.81	17	13 61
Atlantic section-			
Gatun	2.83	19	15 26
*Brazos Brook	2.83	19	18.46
Colon	3 25	19	17 58
†Boeas del Toro	4 32	16	33 13
Porto Bello	2.78	4	16.02

^{*}Standard rain gauge—readings at 5 p. m. daily. Automatic rain gauge at unstarred stations-values, midnight to midnight.

#### Sale of Empty Wooden Barrels.

Sealed bids will be received in the office of the Chief Quartermaster, The Panama Canal, Balboa Heights, C. Z., until 10.30 a. m., August 20,

1920, and then opened, for the purchase of 547 empty wooden barrels on hand at Balboa store-house. Form of proposal may be had upon ap-plication to the office of the Chief Quartermaster or the General Storekeeper, Balboa. The Pan-ama Canal reserves the right to reject any or all bids.

#### July Rainfall for Three Years.

		INCHES.				
Stations.	1918	1919	1920	Station average.	Years of record.	Rainy days, 1920.
Pacific section-						
Balboa	4.32	4.94	6 31	7.86	24	21
Balboa Heights	5 13	4.75	6 18	7.63	24	19
Miraflores	5 21	8 03	11 64	8 43	12	23
Pedro Miguel.	5.54	7 30	11 15	8 93	13	24
Rio Grande	7 18	7.42	9 72	9.81	16	24
Central section-						
Culebra	8 49	7.52	10.79	9 42	29	27
Camaeho	7.79	8 89	11 13	9 76	14	22
Empire	9.24	7.72	11 18	9 04	16	25
Gamboa	6 51	6 70	14 71	10 24	40	24
Juan Mina	5 25	11.14	20 85	10 78	10	24
Alhajuela	8 79	13.46	20 83	12 87	22	24
Vigia	11 96	13.92	20 39	13 02	12	27
Frijoles	6 37	10 50	19 77	11 01	9	
Trinidad	4.78	5 67	10.08	9 03	13	22
Monte Lirio	7.83	9 37	13 61	11.77	13	26
Atlantic section-			1	1		
Gatun	8.15	7.86	15.26	11 91	16	24
Brazos Brook.	10 82	9 28	18 46	15 25	15	24
Colon	10 36	13 60	17 58	16.00	50	23
Porto Bello		24 23	16 02	18 53	9	31
Boeas del Toro	28.51	13,91	33 13	115.66	12	28

#### Additions to Commissary Stock.

Dry Goods Section.	
Blankets, single, cotton, 60" 67" ea	\$2.90
Cloth, plain union, tea, 25", yd	.54
Cream, shaving, Barbasol, tube	.27
Dress goods: Cloth, casement, yd	. 36
Hose, children's, mercerized, pr.	. 38
Pajamas, men's, madras, with braid and	4 05
loops, suit	4.05
white mercerized cheviot, ea	3.65
Shirts, negligee, with French cuffs, ea	3.05
Stationery: Paper, mourning, 24 envelopes	3.03
and sheets, box	.90
Stilettos, bone, for embroidery work, ea	.03
Suiting:	
Serge, indigo, all wool, 54", yd	5.65
Serge, striped, yd	4.85
Serge, cream, yd	4.85
Cotton, dyed, tussore, 27", yd	.50
Ties, 4-in-hand, fancy silk, open end, ea	.85
Ties, 4-in-hand, fancy silk, open end, ea	.51
Toweling, bleached linen, huck, 24", yd	.81
Toweling, bleached linen, huck, 24", yd	1.30
Hardware Section.	
Pans, roasting, self-baster, oblong, ea	1.70
Pans, refrigerator, galvanized iron, 16", ea.	.79
Razors, Auto Strop, No. 54, set	4.05
Spoons, paper (Sanispoons), doz	.07

### COMMISSARY NOTE.

#### Peaches.

Recent advice from the commissary purchasing agent is to the effect that the peach growers of Georgia are about to end one of the most disastrous seasons ever experienced in the history of the industry. Heavy rains during the early season are blamed for poor conditions of fruit and shipments to date are below expectations.

⁺Standard rain gauge-readings at 8 a. m. daily.

### COMMISSARY NOTES.

# Preserved Pineapples.

The manufacture of preserved pineapple has recently been undertaken by the Commissary Division. This article is being sold in all line commissaries at 25 cents per glass, with 2 cents refund for return of container.

### Canned Berries.

After a thorough canvass of both the eastern markets and those on the Pacific Coast, the commissary purchasing agent has advised that no canned strawberries or raspberries are at present available. When the new pack is ready for distribution some time in the fall, it is possible that commissaries' requisitions can be filled.

## Puffed Cereals.

Puffed rice and puffed wheat as well as corn puffs are items which can not at present be supplied on commissary requisitions. The contractors state as the reasons for this that traffic conditions and the shortage of empty cars are entirely responsible for their failure to make regular deliveries. They believe it will be at least 3 or 4 weeks before shipments can be resumed. The conditions cited, it should be realized, apply not only to the items mentioned but to many other articles on requisition in the States.

### Framed Pictures.

The commissaries offered for sale on August 5 a new line of framed pictures. These include miniature reproductions of portraits, landscapes, pastorals, animal studies, marine views, etc. The special process used in manufacturing the frames makes it possible to sell them at very low cost. There are pictures suitable for the decoration of every room in one's quarters. Those with Mother Goose Jingles are intended, of course, for the nursery and there are others just as indelibly stamped as typical of the bachelor's den. Besides the pictures, there are frames which will be sold separately. These range in price from 8 cents to \$1.10.

### Books.

Books received:

"Dark Water," by W. E. Dubois; "Potash and Perlmutter," by Montague Glass; "More E. K. Means," by the author of "E. K. Means;" "Shadow Mountain," by Dane Coolidge; "The Inside Story of the Peace Conference," by E. J. Dillon; "Wild Animals I Have Known," by Ernest Thompsonseton; "Glamour," by W. B. Maxwell; "Ye Towne Gossip," by Kenneth C. Beaton; "A Book of American Humor in Prose," by American writers; "An Eye for an Eye," by Clarence S. Darrow; "Etiquette for Americans," by Anonymous; "Sonnets and Other Poems," by Geo. Santayana; "Mary Marie," by Eleanor H. Porter; "Fiddler's Luck," by R. H. Schauffler; "No. 26 Jayne St.," by Mary Austin.

Readers interested in the works of Blasco Ibañez will be glad to know that the commissaries now have "Sonnica" and "The Dead Command," by this author.

Another shipment of children's books was recently received and is now on sale in the commissaries.

# Forequarter Cuts.

In preparing the less expensive cuts of meat the following easily remembered rule for drawing out the juice for soup and in order to make the meat more palatable, should be observed: Cut the meat into small pieces in order to expose as much surface as possible; let it stand in slightly salted water for a while until the liquid becomes pink, which means that most of the juice has been drawn out of the muscle tubes near the surface; heat slowly to the simmering point so that the connective tissue will gradually swell and squeeze out more juice from the fibers in the interior; then simmer until the connective tissue softens and dissolves allowing the muscle fibers to fall apart. The tissue turns to the gelatine that makes the soup stock jelly as it cools. The soup meat that is left has real food value and should not be thrown away. Add seasonings and a little fat, and you will find it can be made palatable in a number of ways.







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